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U. S. Department of Agriculture

Seeds

VEGETABLE
SEED TRIALS
HORTICULTURE



NEW YORK LETTUCE—SEE PAGE 12

The Inland Seed Co.

South 120-122 Howard Street
Spokane, Washington

1934--THE INLAND SEED CO.--1934

BOOKS

One of the most useful inexpensive booklets with which we are familiar is what is known as "Better Gardening," edited by Harry R. O'Brien, a nationally known writer on garden and farm topics, as well as teacher of Agricultural Journalism at Ohio State University.

This booklet contains 48 pages and has chapter or chapters on 26 different subjects filled full of very interesting and instructive information. Forwarded to your address for 10c or will forward it free upon request with any order amounting to \$1.50 for package seeds.

ROCK GARDEN

Also offer one of the best known and most popular books on "The Rock Garden" by Louise Beebe Wilder, America's best known authority on this subject. This book contains 224 pages 5 1/2 x 8 1/4 inches, has 27 photographs and frontispiece in color. Price \$1.50. Postpaid \$1.60.

GARDEN NOTE BOOK

The author of this book is Alfred Putz, well known authority on gardening. Finely illustrated, showing 52 practical diagrams of plants, pests, etc. It treats such subjects as the following and a great many more: How to keep your house plants healthy? How to prune and protect roses for maximum bloom? Planting lilies, perennials, etc. Price \$1.50. Postpaid \$1.60.

FREE INFORMATION BUREAU

We are glad to record that our customers have used this freely, and we wish to state that it has been a source of great pleasure and profit to ourselves, as frequently we have been obliged to investigate before answering, and this fact accounts for the delay of a few days in answering some inquiries. This has been established for the use of our customers and the more it is used the better we are pleased. It is entirely free.

Aster

Super Giant Los Angeles



“This is the largest and most fully double Aster known. The flowers are from six to eight inches across, full petaled and artistically graceful in the feathery effect of the interlacing ostrich feather type petals. The color is a lovely soft shell pink, blending to a creamy pink at the center. If they are combined in bouquets with some blue flower, as Delphinium Belladonna or Didiscus coeruleus, they show up to best advantage.” Pkt., 25c.

Marigold

Guinea Gold—*Carnation Flowered*



Distinctly new in type, of graceful pyramidal habit, Guinea Gold produces a neat, compact plant, about 2½ ft. high, literally covered with blossoms. The flowers, about 2½ inches across, are semi-double in character, and loosely ruffled. The color is a brilliant golden orange or California gold, the color so much in demand by florists. When first introduced in England, it was offered as a bedding plant, but in the United States it quickly became known as the florists' cut flower, and its success has been phenomenal. The absence of the characteristic marigold odor has been in its favor, as well as its excellent keeping qualities when used as a cut flower. Pkt. 15c; ½ oz. \$1.00; oz. \$1.75.

The Inland Seed Company's

1934 Seed Catalogue 1934

Seeds

ARTICHOKE TUBERS

Planted and cultivated the same as potatoes. Of great value for feeding stock. One lb., post-paid, 20c; at purchaser's expense, 50 lbs., \$2.00; 100 lbs., \$3.50.



ASPARAGUS

PALMETTO—This variety is very desirable on account of its earliness, bright green color, presenting an attractive appearance, excellent flavor and productiveness.

MARY WASHINGTON—This asparagus, which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust free. The shoots are thick and heavy. They are long and straight with closely folded tips. The color is rich, dark green, tinted darker at the tips. It is a heavy yielder of exceptionally fine flavor.

POSTPAID

Pkt. 1 oz. 2 oz. ¼ lb. ½ lb. 1 lb.

Palmetto	\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00
M. Washington ..	.05	.15	.25	.40	.60	1.00

Beans

Bush, Wax Podded

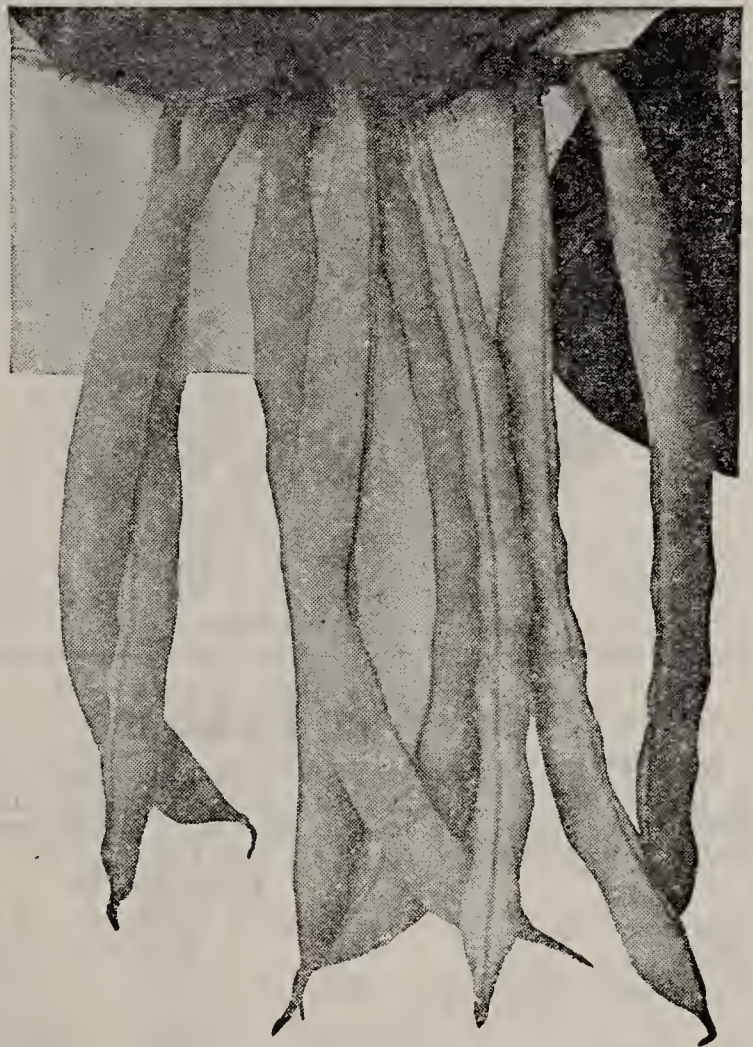
GOLDEN WAX IMPROVED—This is one of the earliest and best dwarf sorts. The plants are erect, compact, and very productive. The pods are of medium length, four and one-half to five inches, nearly straight, broad, flat golden yellow, very fleshy and waxlike.

BLACK WAX, PROLIFIC—The pods are of medium length four and one-fourth to four and one-half inches, borne well up from the ground, curved cylindrical and fleshy.

WARDWELL'S KIDNEY WAX—Particularly valuable for home and market garden. Plants large and thrifty. Pods attractive golden yellow; long, wide and thick; fleshy, brittle, stringless, fine grained, and tender. Seeds white with brownish-black eye.

Bush, Green Podded

REFUGEE, EXTRA EARLY—A very early, green-podded variety, with medium-sized green, fleshy round pods; seed drab, freely spotted with dark purple.



Green Stringless

STRINGLESS, GREEN—Very desirable dwarf green podded snap sort for the home garden and market. The plants are large, spreading and productive. The pods are medium green, five to six inches long, cylindrical, and remain crisp and tender long.

GIANT STRINGLESS—The plants are of strong growth, making large, compact bushes, and produces abundantly. The pods are meaty, nearly round, brittle, stringless, straight, long, and rather slender. The color of the pods is lighter than Stringless Green-Pod and they show deeper depressions between the beans. Matures a few days later than the green stringless.

POSTPAID

	1 lb.	5 lbs.	10 lbs.
Bush Beans	\$0.30	\$1.25	\$2.25
Not prepaid .....	.25	1.15	2.00
	25 lbs.	50 lbs.	100 lbs.
Not prepaid	\$4.75	\$8.50	\$15.00

Pole, Green Podded

ITALIAN OR ROMAN—Vines vigorous, green pods streaked with red. Bean large, oval, cream-colored splashed with red.

KENTUCKY WONDER—Also known as Old Homestead. Pods are medium light green, long, often reaching 9 or 10 inches, curved and twisted, nearly round and very crisp when young, becoming very irregular and spongy as the beans ripen. Seed long, oval, slightly flattened, dun colored. One of the very best early pole snap beans.

LAZY WIFE—The pods are produced in large clusters in great abundance and are from four to five inches in length. Dark green, rather flat, thick, fleshy and entirely stringless. Dry beans white and excellent for winter use.



Kentucky Wonder

Pole, Wax Podded

KENTUCKY WONDER—Yellow podded, bears a large quantity of rich, golden-yellow pods from the time the plant is about half-grown until it is killed by frost in the fall.

	1 lb.	5 lbs.	10 lbs.
Kentucky Wonder	.....\$0.30	\$1.25	2.25
Italian	..... .30	1.25	2.25
Not prepaid	..... .25	1.15	2.00
	25 lbs.	50 lbs.	100 lbs.
Not prepaid	.....\$4.75	\$8.50	\$15.00

	1 lb.	5 lbs.	10 lbs.
Ken. W. Wax	.....\$0.35	\$1.50	\$2.75
Lazy Wife	..... .35	1.35	2.75
Not prepaid	..... .30	1.35	2.50

Limas, Bush

BURPEE'S—This is a little the earliest maturing of the large seeded Limas. The plants are vigorous and productive. The pods are medium green, very large, about five inches long.

HENDERSON'S—A dwarf form of the small white Limas, valuable because of its extreme earliness, hardiness and productiveness.

Limas, Pole

EARLY JERSEY—This variety is one of the earliest of the pole Limas. Pods are four inches in length and contain three and four large beans each.

	1 lb.	5 lbs.	10 lbs.
All Lima Beans	.....\$0.35	\$1.50	\$2.75
Not prepaid	..... .30	1.35	2.50

BROAD WINDSOR—(Vicia Faba) — Sometimes called a tree bean because of its upright growth, bearing its pods at the axil of every leaf. It is sometimes called Horse Bean. Cooked as a shell bean it is very good for table use. Lb., 40c; 5 lbs., \$1.50; 10 lbs., \$2.75.

Ornamental

SCARLET RUNNER—Ornamental and useful. The vine is graceful, flowers are of a brilliant

scarlet, and the beans are of an excellent quality, either when shelled or in a dry state. Oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 35c; 1 lb., 60c, postpaid; at purchaser's expense: 1 lb., 50c.

NEW GUINEA BUTTER BEAN

—One of the most delicious of all vegetables. The New Guinea Butter Vine is a wonderful vegetable. Grows to enormous size, one fruit often weighing 15 lbs., and from 3 to 5 feet long. In growth it is similar to the squash, and can be grown in the same manner or can be trellised up. It is more productive than squash and much easier to grow. The vines are always free from disease and insect pests, and stand more neglect and abuse than any other vegetable vine we know of. The fruits should be eaten when small, while the fuzzy growth is yet on. It can be cooked like squash and fried like egg plant. When cut up in small pieces and cooked with cream or fried it is most delicious. If trellised up, the vines take up so little space, no



garden is too small for at least two or three plants. Pkt., 10c; 3 pkts., 25c; oz., 50c; postpaid.

Field

NAVY—Write for prices, stating quantity wanted.

Beets

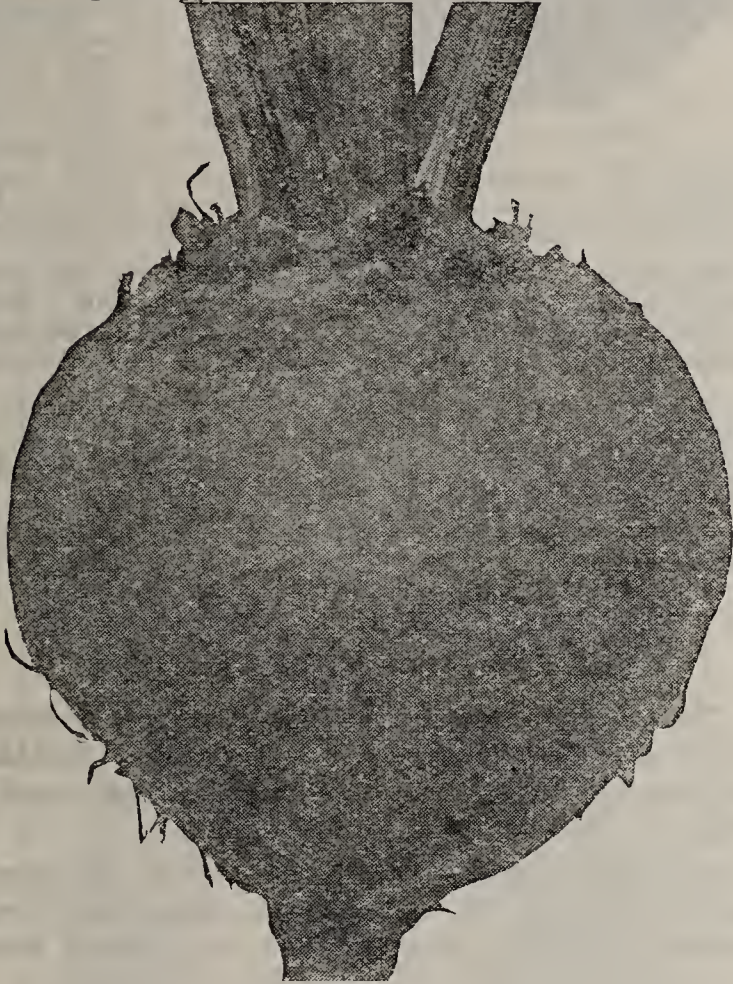


Detroit

DETROIT DARK RED—The tops are small and upright in growth. The roots are medium sized, globular or nearly round, very smooth and of dark blood red color. The flesh is deep vermillion red, zoned with a lighter shade of red.

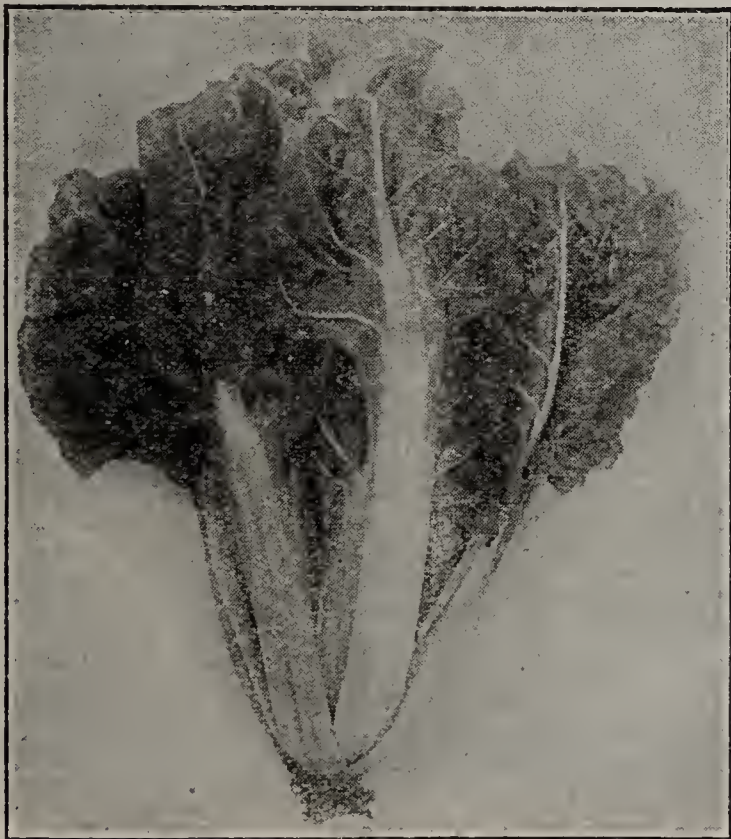
BLOOD TURNIP, EDMANDS—An extra selected stock of Blood Turnip. The roots are dark red and nearly round or slightly flattened. The flesh is deep red, zoned with lighter shade.

EGYPTIAN, CROSBY'S—One of the earliest and best strains of Beets. The roots run uniform in size and shape, have small tops, just right for early bunching. The flesh is deep red, and of excellent quality.



Wonder

WONDER—The earliest of any Beet in existence. It is of perfect globe shape with small tap roots. The color of the flesh is very dark red, which makes it splendid for pickling purposes. In flavor it can not be beat. It is tender, sweet and juicy, retaining its crispness.



Swiss Chard

SWISS CHARD OR SEA KALE—This variety does not produce an edible root like the regular garden beet, but is highly esteemed for the broad, white leaf stalks and midribs, which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach.

POSTPAID**All Table Beets**

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.50	\$0.80	\$3.50	\$6.00

Mangel Wurtzels

DANISH SLÜDSTRUP—Considered best of all mangels, having been awarded first class certificate. In color it is reddish-yellow and of a distinct type. It contains the largest per cent of nutriment found in any sort. It is very hardy, grows well above ground and is easily pulled.

GIANT HALF SUGAR—Is very much more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best mangels.

GOLDEN TANKARD (Improved)—A special feature is the rich, deep yellow color of the flesh. The roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root.

KLEIN WANZLEBEN—This variety has proved to be a very valuable sort, on account of its richness in saccharine matter. Roots rather long, slender growing into the ground.

MAMMOTH LONG RED—This is the largest of all mangels. The roots grow from one-half to two-thirds above the surface and are frequently two or more feet in length by six inches in diameter. Skin dark red, flesh white with veined rings of rose-pink.

YELLOW GIANT, INTERMEDIATE or GATE POST—Roots large, growing half out of the ground; flesh white, sweet and tender; neck small, short, easily harvested.

POSTPAID**All Mangels**

1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.10	\$0.15	\$0.25	\$0.35	\$0.50	\$2.25	\$4.25

Broccoli

ITALIAN GREEN SPROUTING—This vigorous plant is entirely different from the white heading sorts. Cultivated like cabbage, it bears a succession of sprouting heads which, if kept cut, will be replaced by others for 8 or 10 weeks. Each sprout, about 5 inches long, ends in a small head of deep green buds. Many think this vegetable superior in flavor to cauliflower. Pkt., 10c; oz., 75c; 2 oz., \$1.25; ¼ lb., \$2.00.

Brussels Sprouts

Cultivated for the small heads that grow in considerable numbers from the main stem. It is a delicacy much esteemed by some. Sow in seed bed middle of spring and transplant and manage as winter cabbage. Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00.

Cabbage

First Early

CLOVER LEAF COPENHAGEN MARKET—The heads average about 10 pounds, are very solid, with small core and of fine quality. It matures a little later than the Early Jersey Wakefield, and will give a much heavier yield per



Copenhagen Market

acre. The plant is short-stemmed, the heads being produced almost on the ground level.

EARLY JERSEY WAKEFIELD—The earliest and hardest heading of extra early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Heads conical, very compact, solid and of excellent quality.



Danish Ball Head

heads of medium size, round and very solid, being the hardest heading cabbage and of the very best quality. Matures quite late, keeps well.

DUTCH, LATE, FLAT—A low-growing variety; heads large, bluish green, round, solid, broad and flat on top; an excellent fall and winter variety; a good keeper, and a sure header.

DRUMHEAD SAVOY—The leaf is vigorous, with short stem, has densely crumpled leaves and when touched by frost is sweet, delicate and delicious. The head is large.

ROCK RED—Best red sort, much used for pickling.

Late

CLOVER LEAF HOLLAND OR DANISH BALL HEAD—Short stemmed. This is one of the hardest cabbages in cultivation, and endures both frost and drought. The plants are hardy and compact; leaves are very smooth but thick;

Chinese or Celery Cabbage

The most essential requirement for successfully raising Chinese cabbage is cool weather. Where the summers are warm, sowing must be delayed until early August.

PE-TSAI—The leaves when young are crimped, of light green color. The plant as it matures becomes more upright and forms heads

New Golden Acre

GOLDEN ACRE—It is similar to the Copenhagen Market, but is a week or ten days earlier, and smaller, in fact ideal in size for marketing. The heads are very uniform, round, firm and of superior quality. It matures nearly all at the same time. It will stand in the field a long while before bursting and is a most excellent shipper.

ENKHUIZEN GLORY—The round heads are very solid, of medium size. Early and of fine flavor. They keep well when put away, and consequently Enkhuiizen Glory is valuable also for sowing later in the season for early winter use.

STEIN'S EARLY DWARF FLAT DUTCH—Grows low on stems. Heads firm, fine grained, tender and excellent flavor.



Golden Acre

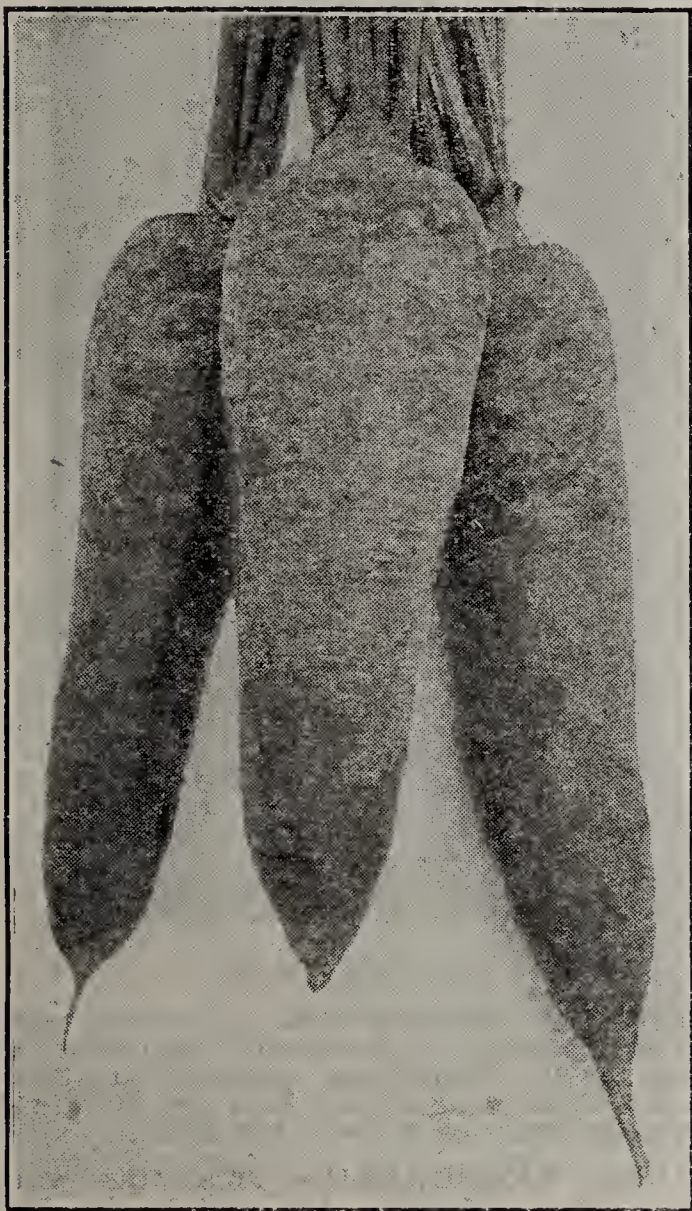
much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white.

POSTPAID

Cabbage	Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.
Copenhagen	\$0.05	\$0.25	\$0.40	\$0.70	\$1.25	\$2.00
E. J. Wakefield..	.05	.20	.40	.70	1.20	2.00
Ball Head .....	.05	.25	.40	.70	1.25	2.00
Enhuizen Glory..	.05	.20	.40	.70	1.20	2.00
Flat Dutch.....	.05	.20	.40	.70	1.20	2.00
Flat Dutch Early	.05	.20	.40	.70	1.20	2.00
Savoy .....	.05	.30	.60	1.00	1.75	3.00
Rock Red.....	.05	.30	.60	1.00	1.75	3.00
Golden Acre.....	.05	.30	.60	1.00	1.75	3.00
Pe-Tsai .....	.10	.40	.70	1.25	2.25	4.00

Carrots

Carrots—Table



Danvers Half Long

CHANTENAY—Early, scarlet color, stump rooted, broad, thick shoulder, heavy cropper. Fine quality. In shape and appearance it takes a place between the Oxheart and the Danvers Half Long.

DANVERS HALF-LONG, IMPROVED—A first-class carrot for all soils. The root is of a rich, dark orange color and grows very smooth and handsome. Very productive, producing as much tonnage to the acre as the longer field sorts, and is much easier harvested.

EARLY FRENCH FORCING—It is an excellent carrot for forcing as well as for an early supply from the garden. Small roots, 1½ inches in diameter, tender and of fine flavor. Rich orange skin and flesh.

LONG ORANGE, IMPROVED—A deep orange colored variety. Heavy cropper. Especially adapted for light, deep soils. Grows entirely under ground.

NANTES OR CORELESS—This is frequently called and sold as coreless. This however is not correct as it is not entirely coreless, but much

nearer to it than any other variety. The flesh is red and very sweet, a stump rooted type growing about six inches in length.

OXHEART OR GUERANDE—A thick carrot, five or six inches long and very blunt at the lower extremity. It grows more rapidly and the root attains a weight of more than a pound.

SCARLET HORN, EARLY—A very early variety. Recommended for the very early market and family garden. Texture fine; very delicate in flavor.

POSTPAID

Table Carrots

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.30	\$0.50	\$0.75	\$1.25	\$5.65	\$10.00
French Forcing Nantes and Scarlet Horn							
\$0.05	\$0.20	\$0.35	\$0.60	\$0.90	\$1.50	\$6.90	\$12.50

Carrots—Stock

IMPROVED SHORT WHITE—Roots smooth, very heavy at shoulder, tapering. A heavy producing field carrot.

WHITE BELGIAN—Grows one-third out of the ground. Root pure white, green above the ground. The flesh is of deep yellow color, tender and of excellent flavor.

YELLOW BELGIAN—Large root; yellow flesh; good keeper.

POSTPAID

Stock Carrots

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.75	\$9.00

Celery

Early

GOLDEN PLUME—An outstanding early variety. Plants of strong growth with thick, heavy stalks, and a well-blanching solid heart. Being of superior quality, it is considered by many gardeners to be the very best early celery. Crisp, tender with good storing qualities.

Late



GOLDEN SELF-BLANCHING—It is of a rich golden tint when ready for the table; very handsome and of excellent quality.

CELERIAC OR TURNIP-ROOTED—Grown exclusively for its roots, which are turnip-shaped, very smooth, tender and narrow-like. The roots are cooked and sliced; used with vinegar they make an excellent salad.

POSTPAID

	Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.
G. Plume .....	.05	.35	.60	1.00	1.75	3.00
G. S. Blanching	.10	.50	.90	1.50	2.50	4.00
Celeriac .....	.05	.35	.60	1.00	1.75	3.00

CHICORY—Witloof or French Endive: This variety produces leaves with wide ribs or leaf stalks which form a cluster or head.

Pkt., 10c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.60; lb., \$3.00.

Corn—Sweet

First Early

EARLY WHITE MARKET—This white variety is very early and bears good-sized ears containing twelve to fourteen rows.

GOLDEN MARKET—This is a cross between Golden Bantam and a white variety. Those who have grown this state that it is earlier than Golden Bantam and that stalks are more vigorous and taller. Ears larger and of a very high quality. Color golden yellow.

WHITE CORY EXTRA EARLY

One of the earliest varieties. It succeeds well where the seasons are short, and can be recommended for general planting. Ears six inches long, with eight rows of broad grains.

EARLY MINNESOTA

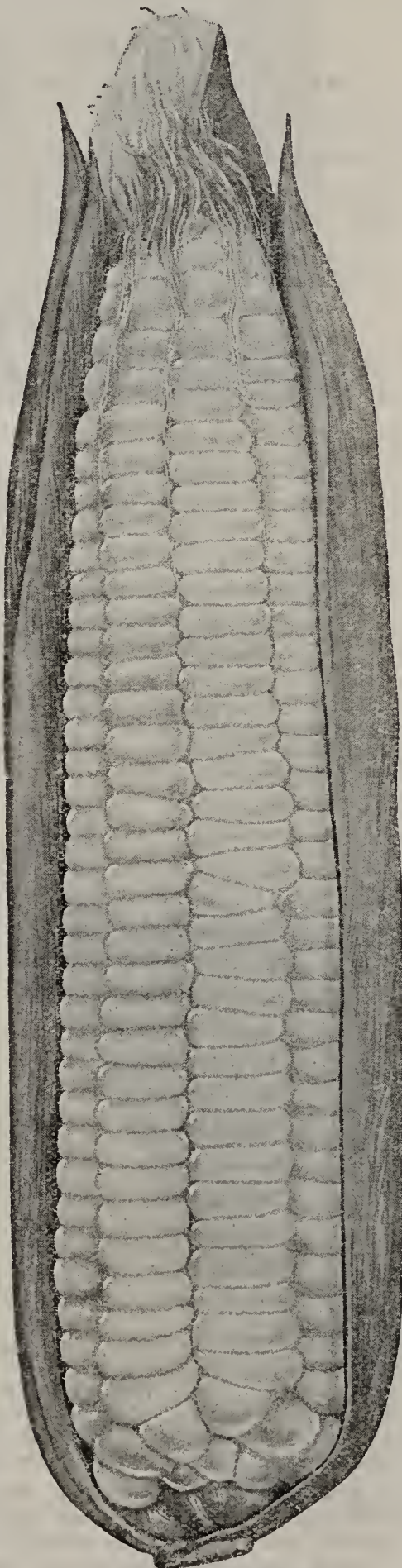
The stalks are about six feet high. The ears are about eight inches long, eight rowed; kernels very broad, white, sweet and tender.

GOLDEN BANTAM

Grows from 3½ to 4 feet in height and produces one or two good ears on each stalk. The ears are about six inches in length, completely filled with eight rows of golden - yellow grains, extending to the rounded tip.

HOWLING MOB

The stalks are of strong, vigorous growth, four and one-half to five feet in height, have abundant foliage and generally produce two fine ears to each stalk. The ears measure seven to nine inches in length, with twelve or fourteen rows of good-sized pearly-white grains.

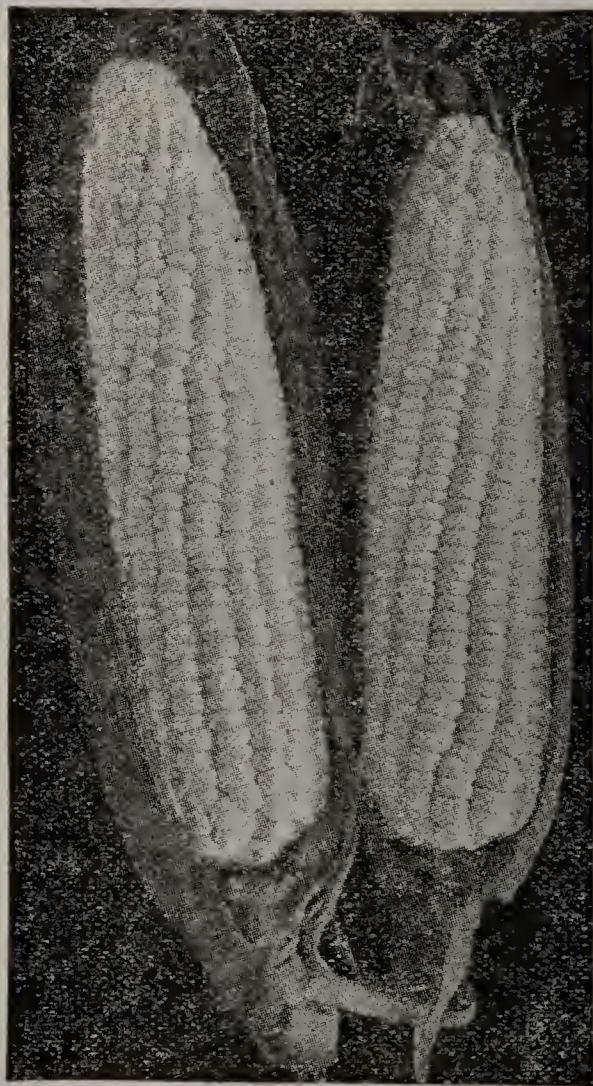


Golden Bantam

PORTLAND MARKET—Early, large-eared variety. Kernels large, sweet, plump, of purest white. A good market variety.

Medium Early

BANTAM EVERGREEN—A cross between Gold Bantam and Stowell's Evergreen, maturing about ten days later than Golden Bantam, and possesses the golden color of the Golden Bantam and the flavor of Stowell's Evergreen. Ears are about one-third larger than Golden Bantam.



Early Evergreen

COUNTRY GENTLEMAN—A favorite second early or main-crop variety with all private gardeners for its tenderness, delicacy, small, deep grains and sweetness. The ears are of fair size, frequently three or four to the stalk.

EARLY EVERGREEN—This fine variety yields large, handsome, ten and twelve rowed ears, averaging about nine inches in length. It is very sweet, has a fine flavor and remains tender a remarkably long time.

GIANT GOLDEN BANTAM—As is well known Golden Bantam Corn is the result of a cross of two other varieties, and has been the most popular corn on the market up to the present time. By careful selection, and cross breeding, all the good traits of Golden Bantam has been retained, and in addition a larger ear has been produced, therefore the Giant Golden Bantam corn has the color, flavor and productiveness of the regular Golden Bantam combined with much larger ears, making it the most popular variety of yellow sweet corn. It comes on the market about a week later than the Golden Bantam.

Late

STOWELL'S EVERGREEN—Hardy and productive, very tender. This variety of corn is distinguished by large ears, long, deep kernels, rich, sugary flavor and long keeping qualities.

Ears are about seven to eight inches long, fourteen to twenty rowed.

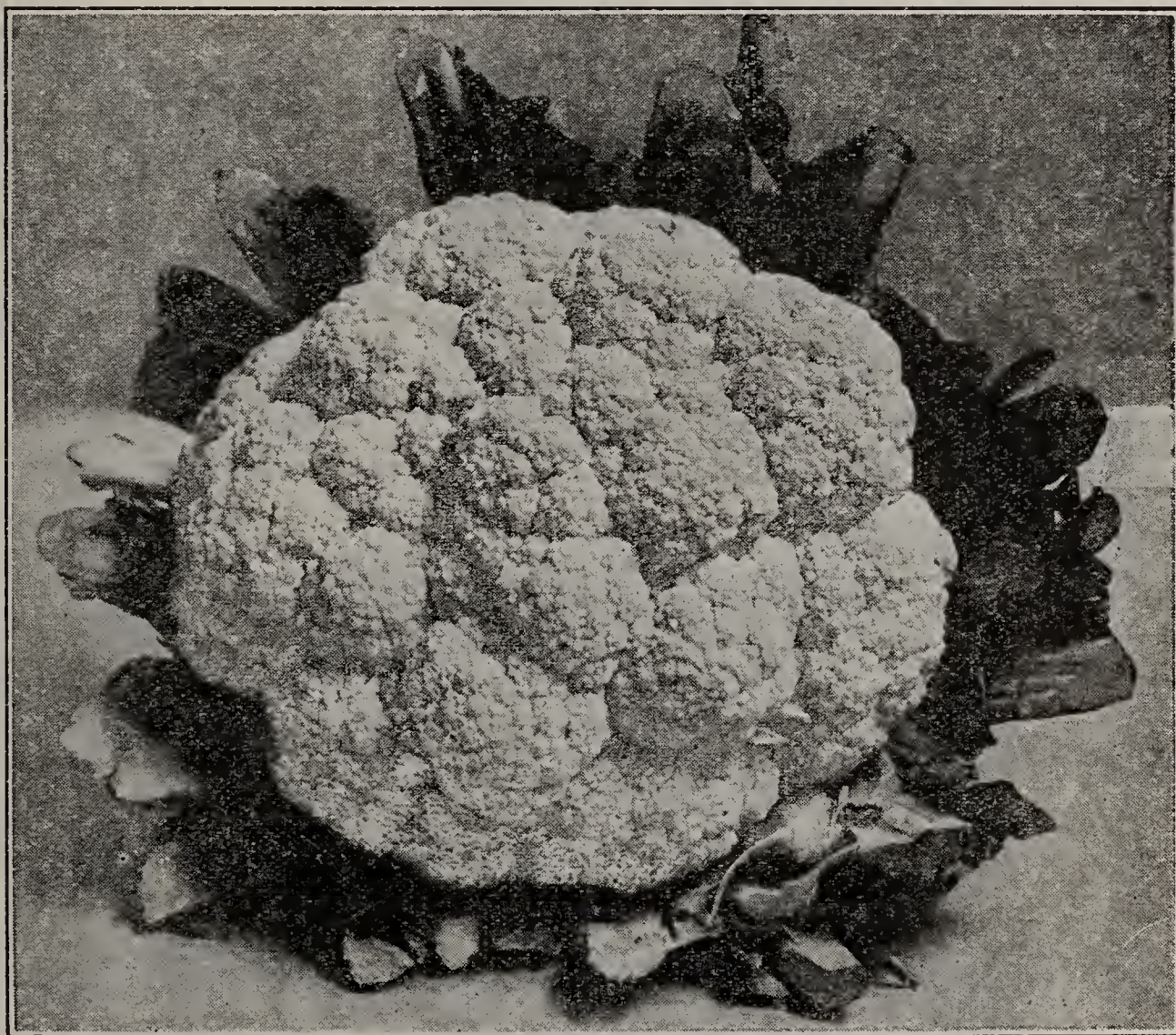
	POSTPAID		
	1 Lb.	5 Lbs.	10 Lbs.
Sweet Corn not specially quoted	\$0.30	\$1.25	\$2.25
Not prepaid .....	.25	1.15	2.00
G. G. Bantam, prepaid .....	.35	1.55	2.75
Not prepaid .....	.30	1.40	2.50

	NOT PREPAID		
	25 lbs.	50 lbs.	100 lbs.
Sweet Corn, not otherwise quoted	\$4.50	\$ 8.00	\$14.00
G. G. Bantam	5.75	10.50	19.00

CAULIFLOWER

—Cauliflower, although one of the most delicious vegetables, is but little grown except by professional gardeners because of the erroneous notion that it is so difficult to grow that only skilled gardeners can produce it.

It should be borne in mind that cauliflower will not head up good in hot, dry weather, and hence the sowing should be so regulated as to bring it to maturity either before the hot summer weather sets in or not until the cooler weather of the fall. After the heads begin to form, draw the leaves over and pin or tie them together to protect the heads from the sun and keep them white.



Snowball

CLOVER LEAF SNOWBALL (Best Imported Strain)—This is an improved extra early strain of dwarf, compact growth. Under favorable circumstances nearly every plant will make a fine, solid head of good size. It is valuable for both early and late.

DANISH GIANT OR DRY WEATHER — (Best Imported Stock)—Large leaved, with pure white compact heads. It is truly a first-class cauliflower and is specially adapted to dry locations and to resisting the effects of drouth. Two weeks later than the Snowball.

	POSTPAID				
	Pkt.	1/2 oz.	1 oz.	2 oz.	4 oz.
Snowball	\$0.10	\$1.25	\$2.00	\$3.50	\$5.00
Dryweather .....	.10	1.50	2.50	4.00	7.00

Lespedeza, See Page 42.

Crested Wheat Grass, Page 43.

Cress

PEPPER GRASS (Curled)—The leaves, when young, have a warm, pungent taste, and are used as a salad, either alone or mixed with other salad plants.

WATER—A delicate, pungent salad plant, very agreeable alone or mixed with other salads. Entirely distinct from common cress, thriving only where its roots are submerged.

	Pkt.	POSTPAID		
		1 oz.	2 oz.	1/4 lb.
P. Grass	\$0.05	\$0.20	\$0.35	\$0.60
W. Cress .....	.10	.40	.75	1.25

Cucumbers

BOSTON PICKLING—This is a very productive variety that is extensively grown for pickles. The vines are vigorous. The fruits are bright green, of medium size, very smooth and symmetrical. The flesh is crisp and tender.

DAVIS PERFECT—This cucumber has an ideal shape and a beautiful dark green color. Its eating qualities are unsurpassed, both because of its fine flavor and its small number of seeds.

EARLY CLUSTER—A short, prickly variety; usually growing in clusters. Is a prolific bearer, and one of the earliest; flavor excellent.

EVERBEARING—This is not only a very early variety but is also extremely prolific. If the fruit is kept gathered, vines will continue in bearing throughout the season. The fruit is of medium size and rich dark green color, averaging from four to five inches in length.

KLONDIKE—White Spine Type. Used principally for long distance shipping, as the deep green color holds extremely well. The ends ta-



Long Green

per slightly, fruit smooth and symmetrical but not as long as some other long varieties. It is very valuable on account of its earliness. Usual size 7x2½ inches.

LONG GREEN, IMPROVED—The vines are very vigorous and productive. The fruit is very long, growing frequently from 12 to 15 inches, and are uniformly slender and of a beautiful dark green color. The large warts and spines are well distributed over the surface.

SHORT GREEN, OR EARLY FRAME—A vigorous and productive variety producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table or pickling.

WHITE SPINE, IMPROVED—One of the best sorts for trade use, fruiting early and abundantly; fruit uniformly straight and handsome; light green, with a few white spines.

POSTPAID
Cucumbers

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.75	\$9.00

Longfellow

This new and greatly improved cucumber belongs to the white spine family, therefore is inclined to turn white as it approaches maturity, but never shows any trace of yellow. Its color is exceptional, being fully equal to cucumbers grown under glass, about the only criticism that can be made against the Longfellow is that if conditions are not right, there is liable to be some curved or crooked ones.

Longfellow

\$0.10	\$0.20	\$0.30	\$0.50	\$0.85	\$1.50
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Longfellow

Egg Plant

NEW YORK IMPROVED—This is a standard variety, both for market and home garden.

BLACK BEAUTY—This beautiful egg plant is 10 days earlier than the New York Improved. The fruit is broad and thick, of most attractive form, and does not fade or change to a lighter color at the blossom end. The fruits set freely, and are ready for market early, so the crop can be gathered before danger of frost.

POSTPAID

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.
Both Egg Plants	\$0.10	\$0.50	\$0.85	\$1.50	\$2.50 \$4.50

Garlic

Has a bulbous root, with a strong, penetrating odor and flavor. Belongs to the onion family and cultivated much in the same manner.

Lb., 50c, postpaid.

Endive

BROAD LEAVED BATAVIAN — Leaves are broad, thick, green, more or less twisted and waved with white mid-ribs. Crisp, tender.

LARGE GREEN CURLED — A fine market sort; tender, green leaves; blanch white; hardy.

POSTPAID

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.
Both Endives.....	\$0.05	\$0.20	\$0.30	\$0.50	\$0.75 \$1.25

Kohl-Rabi

The Kohl-Rabi is a vegetable intermediate between the cabbage and turnip, and combines the flavor of each.

EARLY PURPLE—A very desirable sort for forcing or early outdoor planting. Bulbs are of medium size, purple, flesh white. Very early,

with small top, the leaf stems being tinged with purple.

EARLY WHITE VIENNA—Is the earliest and best for forcing; is very tender, excellent for table use.

POSTPAID

Pkt. 1 oz. 2 oz. ¼ lb. ½ lb. 1 lb.

Both Kahl-Rabi..\$0.05 \$0.25 \$0.40 \$0.60 \$1.00 \$1.75

Kale or Borecole



DWARF GREEN CURLED SCOTCH—Plant low and compact, with large, bright, deep green leaves, curled, cut and crimped until the whole plant resembles a bunch of moss.

TALL GREEN CURLED SCOTCH—Produces an abundance of dark green, curled leaves.

THOUSAND HEADED OR COWKALE—The plant attains a height of from 3 to 4 feet, the stem being covered with leaves of quick growth after being removed, thus producing a great amount of feed, hence it has become very popular with dairymen and poultry keepers.

POSTPAID

Pkt. 1 oz. 2 oz. ¼ lb. ½ lb. 1 lb.

Kale\$0.05 \$0.15 \$0.25 \$0.40 \$0.60 \$1.00

Lettuce

Loosehead or Cutting

BLACK SEEDED SIMPSON—Used for growing under glass or outdoors. The leaves are ruffled and blistered and even the large outer ones are very tender. This curly and thin-leaved variety is uniformly attractive and remains of excellent quality a very long time.

PRIZE HEAD—(Seed white.) A large, non-heading lettuce, most excellent for the home garden. It is too tender, however, to stand shipping. The leaves are finely curled and crumpled, bright green tinged with brownish red, and are very crisp, tender and sweet.

SIMPSON'S EARLY CURLED—(Seed white.) A very extensively used early loose leaved variety. The leaves are light green in color, slightly frilled and much blistered, crisp, sweet and tender.

Early and Forcing

BIG BOSTON (Seed White)—The leaves are broad, comparatively smooth but wavy at the edge, thin, very hard and crisp. In color they are bright light green.



Grand Rapids

GRAND RAPIDS (Seed Black)—As a lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot and standing for some days after being ready to cut. This plant is upright and forms a loose head.

Heading



Hanson

HANSON—One of the most desirable later summer lettuces. The plant is compact and forms a large, cabbage-like head which remains in condition longer than most heading sorts. The outer leaves are bright yellowish green, broad, somewhat crumpled and frilled at edge.

ICEBERG—Has an unusually solid head. The white main ribs of the leaves curve toward the center, which keeps the interior thoroughly blanched. It is a quick grower and always crisp and tender.

NEW YORK OR WONDERFUL—We pride ourselves upon the extra fine strain of our New York Lettuce. The mammoth heads are solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is



New York

unsurpassed, being tender, crisp and sweet. The New York is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head.

Cos

PARIS WHITE COS—The Cos Lettuce differs entirely in shape from other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green.

Chicken Lettuce

This lettuce furnishes a great amount of green feed and is therefore highly recommended for chicken or rabbit feed. It does not form heads, but produces stalks three to four feet.

POSTPAID
Lettuce

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.30	\$0.45	\$0.75	\$1.25	\$5.50	\$10.00

POSTPAID
New York

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.20	\$0.35	\$0.60	\$1.00	\$1.75	\$7.50	\$12.50

New York No. 12
Seed From Originator

This type has been developed from the standard New York flat-headed type, but is an improvement over the original, being earlier, surer header, and producing larger and more solid heads, and is slower going to seed, and not so liable to sun-scald.

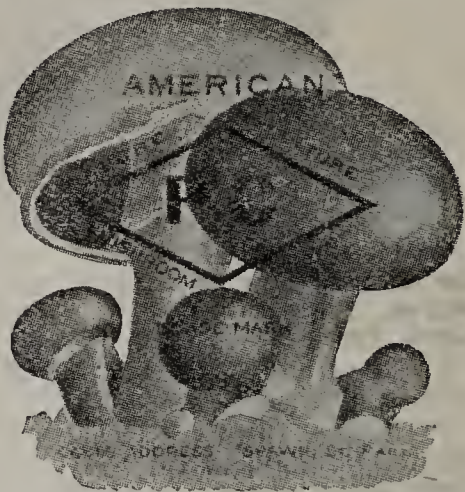
Pkt., 10c; oz., 25c; 2 oz., 40c; ¼ lb., 70c; ½ lb., \$1.15; 1 lb., \$2.00; 5 lbs., \$8.75; 10 lbs., \$15.00.

Leek

LARGE LONDON, OR SCOTCH FLAG—This leek is generally considered more delicate than the onion for soup, etc. Sow in seedbed middle of spring; when the plants are three or four inches high, transplant them into rows wide enough apart to admit the hoe between them. Pkt., 5c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; lb., \$1.75.

Mushroom Spawn

With intelligent care and good spawn, mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar or under the benches of a greenhouse, where the temperature can be kept from 50 to 60 degrees.



L A M B E R T'S
PURE CULTURE

It comes in bricks, weighing about 20 ounces. These are broken up into pieces the size of a walnut and put into the bed one foot apart each way. Brick, 45c; 5 bricks, \$2.00, postpaid.

Leaflet on Mushroom culture sent with order if requested.

Muskmelons
Green-Fleshed Varieties

GREEN NUTMEG—Ripens early, flesh green, fine and sweet. Superior for early market, or family garden; a favorite for hotels and restaurants.

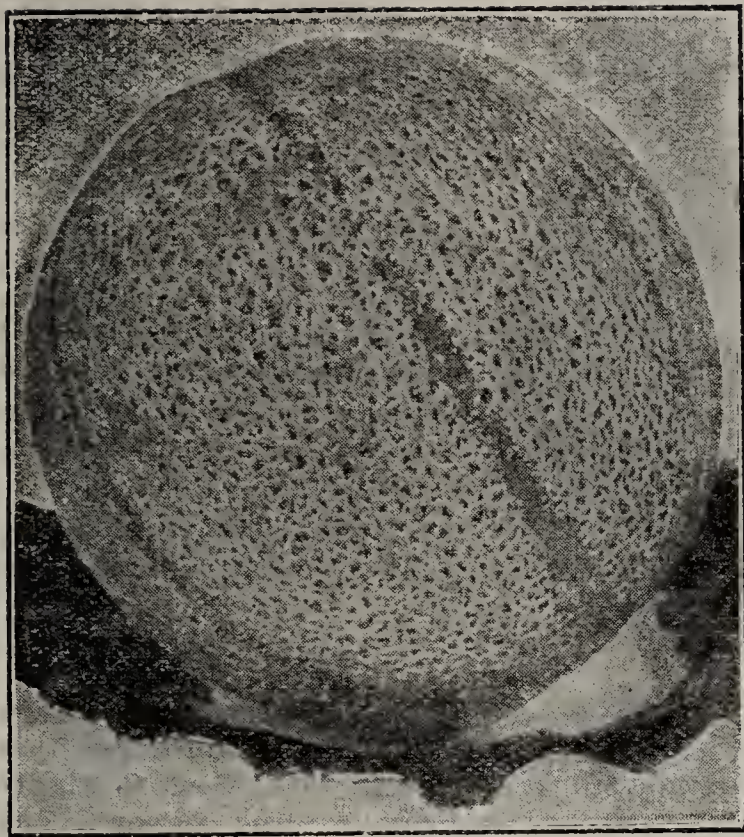
ROCKY FORD OR NETTED GEM—It is of the Netted Gem type, oval in shape, averaging from four and one-half to five inches in length, of a delicious flavor, very fine and smooth grained flesh, of light green color throughout.

HACKENSACK EXTRA EARLY IMPROVED—A selection from and an improvement on the old Hackensack, and similar in shape and appearance; nearly as large and fully 10 days earlier; one of the finest for market gardeners.

(POSTPAID IN)

Green Fleshed Mushmelons

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$8.00



Rockyford

Salmon-Fleshed Varieties

BANANA—A splendid melon averaging from 20 to 28 inches in length, of a rich salmon color, and delicious flavor. Don't pick the melons until they are thoroughly ripe, as they are then at their best.

EMERALD GEM—The skin, white-ribbed, is perfectly smooth and of a deep emerald green color. The flesh is thick and of a deep salmon color, and ripens to the green rind.

LARGE YELLOW—The fruit is large, oblong, slightly ribbed and coarsely netted. The flesh is light yellowish-green, very sweet, crisp and delicious.

OSAGE OR MILLER'S CREAM—The skin is very thin, of a dark green color, and slightly netted. The flesh is of a salmon color, remarkably sweet, extremely thick, and delicious.



Burrell Gem

BURRELL GEM—Burrell's Gem has a tough, thin rind, well arched ribs, covered with a closely interlaced gray netting; shape elongated, being about 4½ inches in diameter by 6 inches long, flesh, a reddish orange; thick and fine grained.

POLLOCK 10-25—A popular early melon of the solid netted type, very small seed cavity with thick luscious flesh of genuine salmon tint.

GOLDEN BEAUTY CASSABAS—One of the best cassabas. It is a variety grown extensively for shipment. The fruits are nearly globular, bright yellow with golden tint, with wrinkled skin, six to eight inches in diameter. The flesh is white, very thick, juicy and sweet.



HEARTS OF GOLD—This is an orange-fleshed variety of medium size, ideal as a shipping melon and a desirable mid-season sort. The vines are vigorous, blight-resisting and very productive. The rind is thin, yet very firm, so that the melons arrive in perfect condition in distant markets. The flesh is very thick, firm, of fine texture and delicious flavor.

Note the size of the cavity as compared to size of dollar, also the very thin rind.

HALE'S BEST IMPROVED—Extra early salmon tinted of remarkable flavor. The seed cavity is small and the attractive salmon tinted flesh is firm. Melons are oblong, well netted and very attractive. It is ten days to two weeks earlier than any other strain of the famous Rockyford or Netted Gem variety.

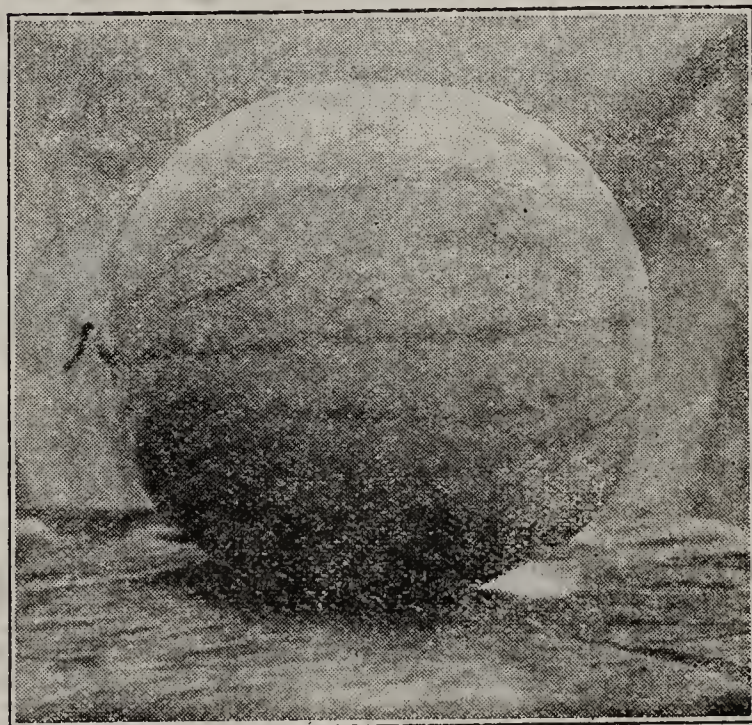
HONEY DEW—Average size six inches in diameter and seven to eight inches in length, weighs five to six pounds. The skin is smooth, with an occasional net, is a creamy yellow when ripe. The flesh is very thick, and very fine grained. The seed cavity is very small.

POSTPAID

Salmon Fleshed, Musk Melons

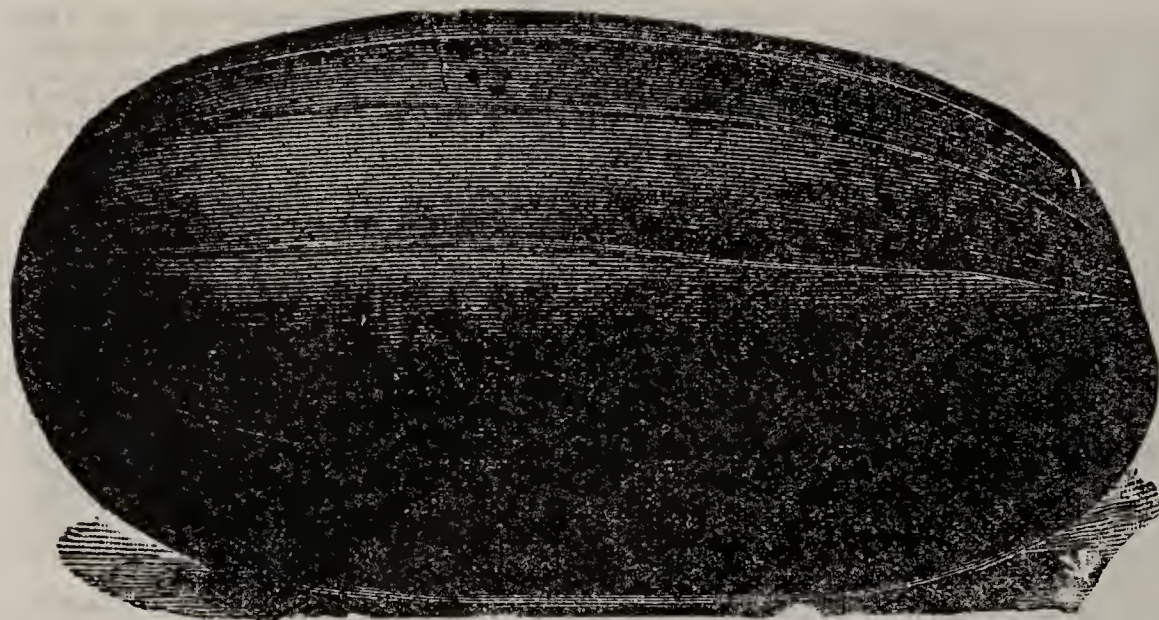
Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$8.00

Watermelons



Ice Cream

ICE CREAM (Black Seeded)—A little later. Oval in shape, light in color, with a very faint stripe, seeds small and black, flesh bright red with a thin rind and solid meat and a flavor that far surpasses that of any other watermelon. It is crisp and delicious.



Kleckley's Sweet

CUBAN QUEEN—A very fine variety, growing to a great size; flesh bright red, solid and sweet. The skin is beautifully striped, dark and light green.

FLORIDA FAVORITE—Oblong in shape, growing to a large size; rind dark, with light green stripes; flesh light crimson, crisp and sweet.

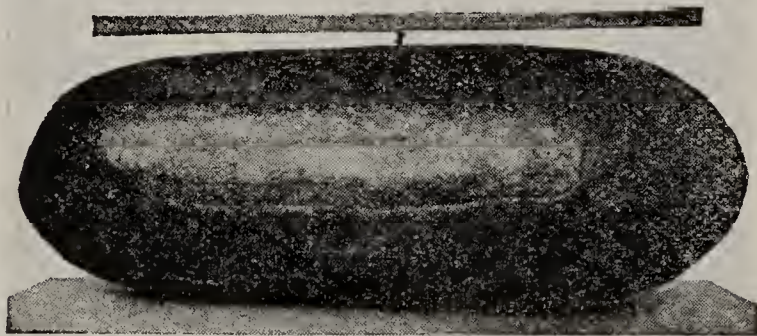
GEORGIA RATTLESNAKE OR GYPSY — A popular variety. Large, oblong with decided stripes of light and deep green. A splendid shipper; flesh bright red and of good quality.

FORDHOOK EARLY—This is one of the very earliest grown; of medium size and of excellent quality. Dark green skin mottled with a deeper shade; flesh bright red.

HALBERT HONEY—An exceedingly sweet and deliciously flavored melon, similar in size and shape to Kleckley's Sweet. It is of handsome, long, oval shape, averaging about 18 inches long, and about six inches in diameter.

PEERLESS—One of the best melons in cultivation. Rind thin, light mottled green. Flesh bright scarlet; solid to the center, sweet as honey.

IRISH GREY—A distinct and very valuable melon; wonderfully productive; long, thick, uniform. Color of rind, yellowish gray, interwoven with thread-like veins; smooth, marble-like surface almost as hard as the citron. Flesh sparkling bright red.



Tom Watson

TOM WATSON—A large, long melon similar in shape and color to the Kleckley's Sweet and possessing the same delicious flavor and quality, but averaging larger in size and with a tougher rind, making it especially adapted for shipping to distant markets. The vines are vigorous and productive. The flesh is rich red, sweet and tender. Seed white, more or less marked with brown. Excellent shipper.

POSTPAID Watermelons

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.50	\$0.90	\$4.00	\$7.00

KLECKLEY'S SWEET, OR MONTE CRISTO—(White Seeded)—This is one of the best flavored melons in cultivation, and of a shape and color that is extremely desirable. The rind is very dark green, very thin; flesh deep scarlet; fine, and of delicious quality. For the home market and family garden it is decidedly one of the best.

Attractive red color, crisp, sweet and delicious.

KLONDIKE—A melon of good size and shape with dark green skin. Fruits show a suggestion of ribbing but are smooth. The flesh is highly colored and of fine quality and flavor. The seeds are small, smooth and black. This melon has become very popular on account of the attractive, bright red interior color, combined with high quality, and the thin but tough rind which stands shipping well.

These are a number of different strains of this melon, but our grower after testing all these different strains states their experience has been that the strain producing the coffee colored seed is by far the best. We therefore will continue to furnish this well established strain.

POSTPAID

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.20	\$0.30	\$0.45	\$0.75	\$1.25	\$5.50	\$9.00

CITRON—For preserving; grows uniformly round and smooth; striped and marbled with light green; flesh white and solid.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.50.

Mustard

MUSTARD is used alone as "greens" or with cress as salad. Sow any time in the spring, in rows.

SOUTHERN GIANT CURLED—The leaves are large, light green with tinge of yellow, much crimped and frilled at edges. The plant is upright or slightly spreading in growth.

WHITE ENGLISH—The leaves are comparatively small and smooth, deeply cut or divided and of medium dark green color.

Both varieties of mustard: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; 1 lb., \$1.00.

Okra or Gumbo

The long, tender pods of Okra are very delicious when sliced and cooked in soups.

DWARF GREEN—An early dwarf prolific variety with thick green pods.

WHITE VELVET—Large pods, smooth or very slightly ribbed, remain tender a long time.

Both varieties, Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; 1 lb., \$1.00.

A field of onions that we receive our seed from.



Onions

Brown

AUSTRALIAN — Of medium size, hard and solid. Bulbs very attractive in appearance. Color a clear amber brown. Specially noted as a long keeper.

Red

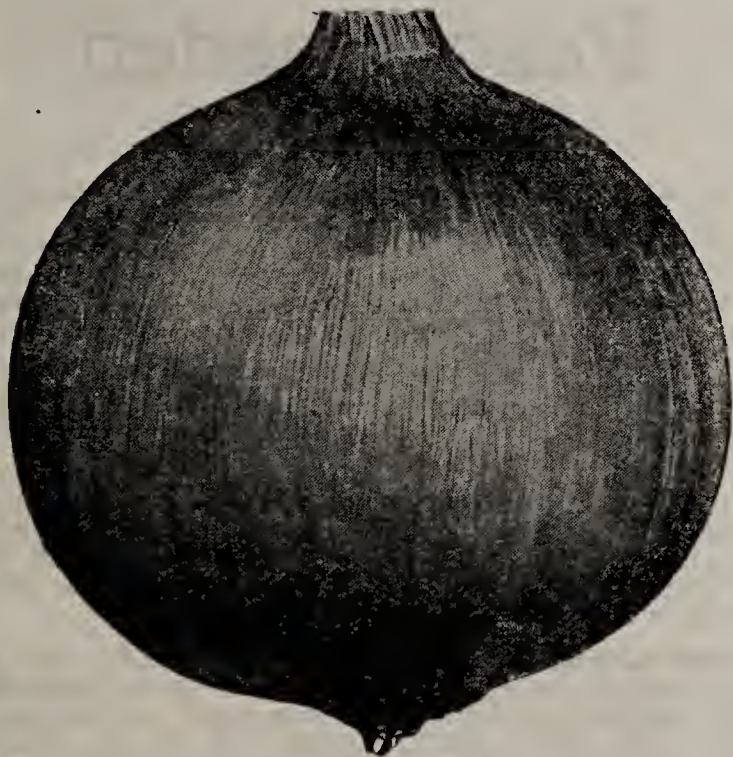
SOUTHPORT RED GLOBE—This most excellent red variety produces bulbs of medium to large size, ideally globe shaped, with very smooth, glossy surface, very small neck and remarkably beautiful deep purplish red color.

Yellow

BERMUDA IMPORTED—The most widely grown of this variety. Light straw-yellow skin and pure white flesh. Grown very extensively in the Southern States. If planted in fall will mature very early.

DANVERS—YELLOW FLAT—The leading large yellow kind, round, slightly flattened, flesh fine-grained, rather mild, very rich and sweet; one of the best keepers and shippers, and one of the most productive kinds.

MAMMOTH PRIZETAKER—A very handsome late or main crop onion of the largest size and nearly globular in form, usually with shoulder and base slightly sloping. The skin is yellowish brown or light yellow with slight tinge of brown. The flesh is creamy white, very mild.



Yellow Globe Danvers

DANVERS—YELLOW GLOBE—This onion is the standard winter sort in many markets. The shape is almost globe form and the bulbs are quite large, with thin necks, ripening down well. The skin is a fine brown orange yellow.

Sweet Spanish

SWEET SPANISH — A very large globe-shaped light yellow onion with small top, and an exceptionally fine shipper. It is a Spanish variety which has quickly become very popular in many sections of this country. This onion combines flavor and mildness with good keeping qualities, thus making it a desirable and profitable onion to grow.

White

CLOVER LEAF BUNCHING—Do not make the mistake of thinking that all varieties of onions are equally good for bunching. White varieties are always the best. This is the very best variety known for bunching. Recommend thick sowing.

CRYSTAL WAX BERMUDA—Medium size, pure, waxy white. One of mildest sorts grown. Imported seed. Used extensively for transplanting and sold generally as white Bermudas.

SOUTHPORT GLOBE—Its mild, delicious flavor and exceptionally attractive appearance have won great prominence. It is a most beautiful onion, of superb eating quality. Handsome, white globe-shaped, flesh fine and very white.

SWEET SPANISH—Similar in size and shape to the Riverside Sweet Spanish, but pure white. Very handsome and mild.

POSTPAID

A. Brown Red Globe, Y. Danvers, G. Danvers							
Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.20	\$0.35	\$0.60	\$1.00	\$1.75	\$7.50	\$12.50

Prizetaker							
\$0.05	\$0.20	\$0.40	\$0.70	\$1.25	\$2.00	\$8.75	\$15.00

Bunching, S. W. Globe							
\$0.05	\$0.25	\$0.45	\$0.75	\$1.25	\$2.25	\$10.00	\$17.50

Sweet Spanish							
\$0.10	\$0.25	\$0.45	\$0.75	\$1.25	\$2.25	\$10.00	\$17.50

Bermudas and Crystal Wax							
\$0.10	\$0.30	\$0.55	\$1.00	\$1.75	\$3.25	\$15.00	\$27.50

Onion Sets

BOTTOM SETS—Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market.

YELLOW—Lb., 20c, postpaid; at purchaser's expense, 10 lbs., \$1.25. For large quantities, write for prices, stating quantity wanted.

Bermudas and Sweet Spanish, reduced prices.

Onion Plants

Onion plants are being extensively used in some districts for producing large early matured onions, as matured onions can be secured from the plants much sooner than from seed. The plants are good keepers so that there is little or no danger of them not growing. Besides, they are one of the easiest plants to grow. It is recommended to plant the rows sixteen inches apart and the plants three to four inches apart in the rows. If planted in this manner it will take about 100,000 to the acre. Do not plant too deep. Plants are put up in bundles of about 100 and sixty bundles to a crate. Count not guaranteed.



Prices, Postpaid

2 bundles	\$0.45
3 bundles .....	.60
6 bundles	1.00
10 bundles	1.50
Crate 60 bundles.....	6.00

Crate weighs about 30 lbs.

Add postage to crate price.

Not less than two bundles sold. We are growing quite an acreage in the Northwest, and quotations made are on these plants. In case of excessive winter killing when we might be compelled to secure some plants in Texas, price would be higher.

Parsley

Very useful for flavoring soups, meats and garnishment. The green leaves are used for flavoring.

EXTRA DOUBLE CURLED—A compact grower, finely cut and much curled variety of bright green color.

TURNIP-ROOTED or HAMBURG—The root, which resembles a small turnip, is the edible portion of this variety. Extensively grown and used for flavoring soups, etc.

Both varieties of parsley, Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 75c; 1 lb., \$1.25.

Parsnips

IMPROVED GUERNSEY (Improved Half-Long)—A greatly improved and wonderfully fine strain of Guernsey parsnip. It is a very heavy cropper. The roots are very smooth, the flesh is finely grained and of most excellent quality.

LONG SMOOTH OR HOLLOW CROWN (Abbott's Improved Long Sugar or Long White Dutch Parsnip)—A great cropper; tender, sug-



Parsnips

ary and considered the best for general cultivation. Parsnips are improved by remaining exposed to the frost.

POSTPAID Both Parsnips

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.50	\$0.85	\$3.75	\$6.50

Peas, Garden

Extra Early

ALASKA OR EARLIEST OF ALL—Earliest of the blue smooth varieties. A smooth, blue pea, which in evenness of growth of vine and early maturity of pods is unequalled by any other pea. Vines two to two and one-half feet high.

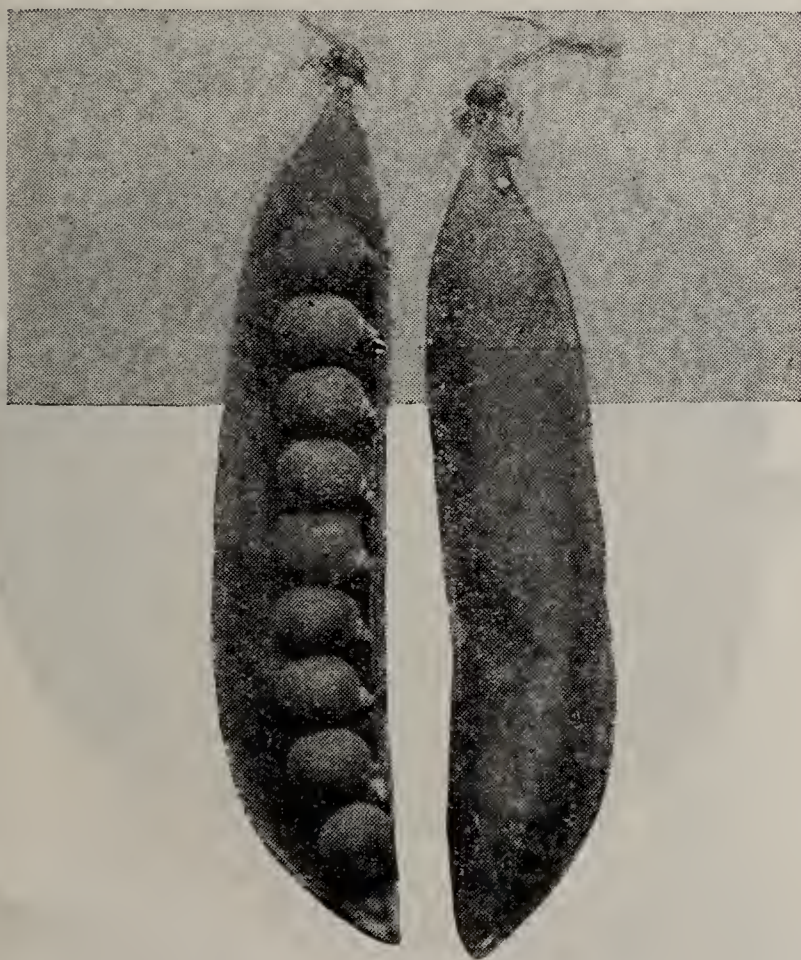
LITTLE GEM, McCLEAN'S—The vines grow about 18 inches in length, producing well-filled pods of from 2½ to 3 inches long. The peas are green, wrinkled, sweet and delicious.

LITTLE MARVEL—Height 18 to 24 inches. The vines are sturdy, and heavily set with straight, deep green pods, square ended at the bottom and nearly three inches in length. Seed large wrinkled.

IMPROVED AMERICAN WONDER—One of the best of the wrinkled sorts. Has stout, branching vines about 18 to 24 inches high, and covered with well-filled pods, containing sweet, tender and well-flavored peas. The only objection to the old type American Wonder Peas has been its extremely short vine, especially when grown on a commercial basis, on account of the difficulty in harvesting. The vine of the old type grew from 12 to 15 inches while the vine of the new type is from 18 to 24 inches. This result has been obtained by reselection over a period of a number of years, of the longest and best vines. As the

**American Wonder**

original flavor and productiveness has been maintained, the new type is a great improvement over the old.

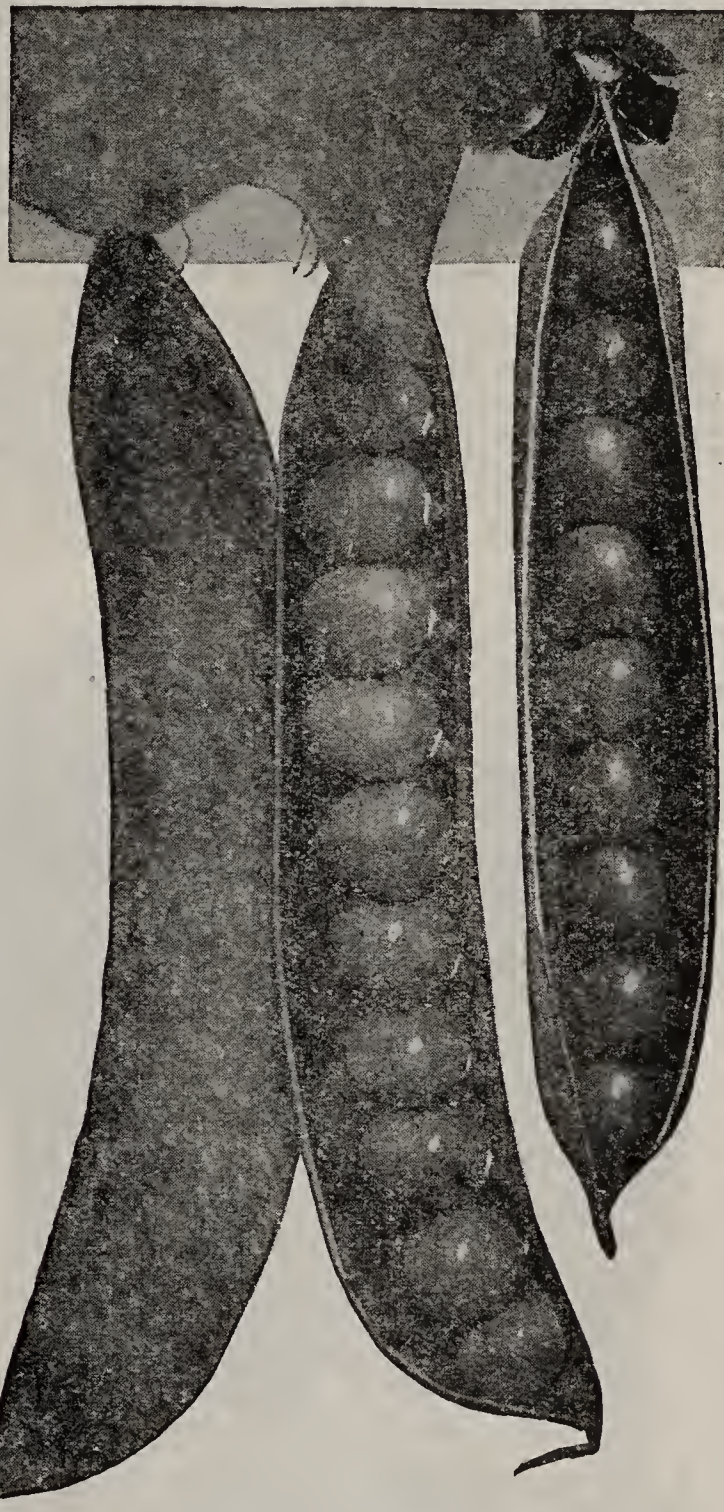
**Blue Bantam**

BLUE BANTAM—Is unequalled for combination of extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average 24 inches in height and carry enormous crops of large, deep bluish-green pods. The pods measure four to four and one-half inches long and contain eight to ten large, deep bluish peas of most luscious flavor.

Second Early

GRADUS or PROSPERITY—The vine grows about 30 inches. The pods are of a light green color and measure 4 inches or more in length.

LAXTONIAN—A pea of fine size and exceptional quality. The vines are dwarf, growing from 15 to 20 inches, and the pods are from 4 to 4½ inches long, of bluish green color, and pointed at the end.

**Dwarf Telephone**

TELEPHONE, DWARF—Produces handsome long pods. A great favorite with our market gardeners. Immensely productive, of the finest quality and excellent sugary flavor; vines very strong, growing from 18 to 24 inches high.

Late

STRATAGEM IMPROVED OR POTLATCH—The pods are of immense size filled with large, dark green, wrinkled peas of the finest quality; vine of medium height, but very stocky, with very broad, light green leaves.

Tall

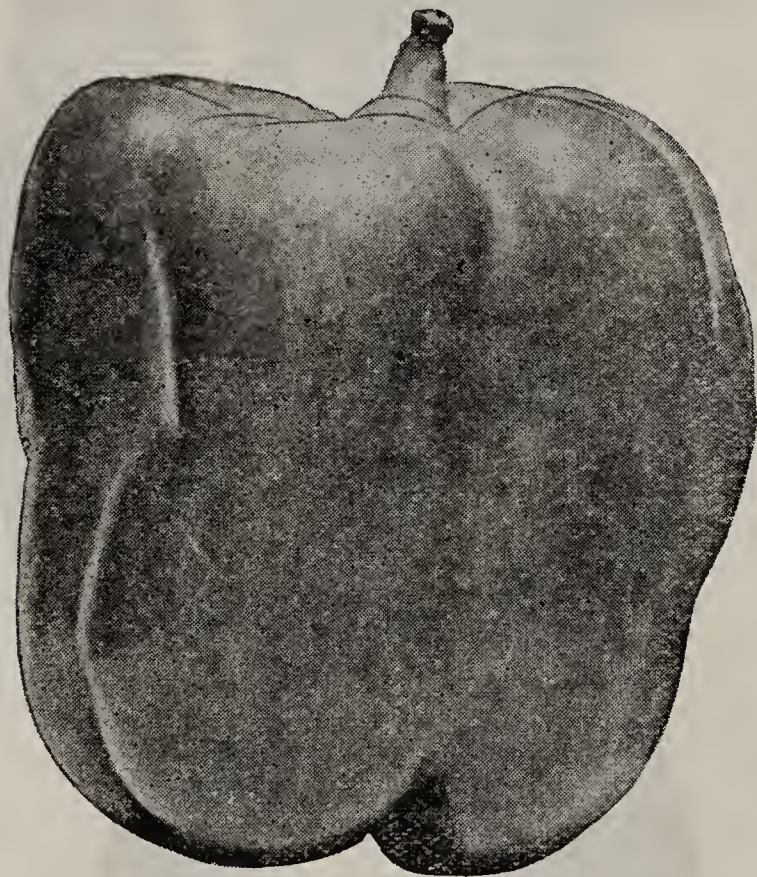
TELEPHONE—The tall Telephone still remains a great favorite and one of the leading varieties. The vines grow from 4 to 5 feet and are strong and vigorous, producing large pods of about four inches in length, of a deep green color and well filled with large peas of a most luscious flavor.

	POSTPAID		
	1 lb.	5 lbs.	10 lbs.
All varieties	\$0.30	\$1.25	\$2.25
Not prepaid .....	.25	1.15	2.00
	NOT PREPAID		
	25 lbs.	50 lbs.	100 lbs.
All varieties	\$4.75	\$8.50	\$15.00

MELTING SUGAR—One of the best known edible pod varieties. Large broad pods, 4 to 4½ inches long, often curved or twisted; when young, stringless, very tender, and richly flavored. The vines, 4 to 5 feet tall, produce an abundance of pods. Seeds medium large, round, and smooth; color creamy-white and yellow. Post-paid, 1 lb., 40c; 5 lbs., \$2.00; 10 lbs., \$3.75.

Peppers

CALIFORNIA WONDER—Vigorous growing plants bear a heavy yield of handsome blocky fruits which reach a size of 5 inches in length and 4 inches across. The thickness of flesh alone, which is often ¾ of an inch, places it above all other peppers.



California Wonder

CHINESE GIANT—An enormous fruiting variety, averaging 12 to 15 inches in circumference. Flesh is thick, tender, mild and sweet, and is unexcelled for salad or stuffed as mangoes. When ripe the peppers are a rich, glossy scarlet.

LARGE BELL OR BULL NOSE—Sometimes called Sweet Mountain. The plants are vigorous, about two feet high, compact and very productive, ripening their crop uniformly and early. The fruits are large, growing from three to four inches in length, with thick, mild flesh.

LONG RED CAYENNE—Brilliant coral-red pods, three or four inches long, and a prolific bearer; very pungent and used very largely with pickles when green.

PIMENTO—A thick fleshed, heart-shaped, of mild flavor. The fruit is long and slender and very sweet.

RUBY KING—Very large and attractive. The plants are about two and one-half feet high, vigorous, compact and productive. The fruits are often four to four and one-half inches long.

	Pkt.	POSTPAID		
		1 oz.	2 oz.	4 oz.
Bull Nose	\$0.10	\$0.40	\$0.75	\$1.25
California Wonder .....	.10	.50	.90	1.50
Chinese Giant .....	.10	.60	1.10	2.00
Long Red Cayenne....	.10	.60	1.00	1.75
Pimento .....	.10	.60	1.10	2.00
Ruby King .....	.10	.40	.75	1.25

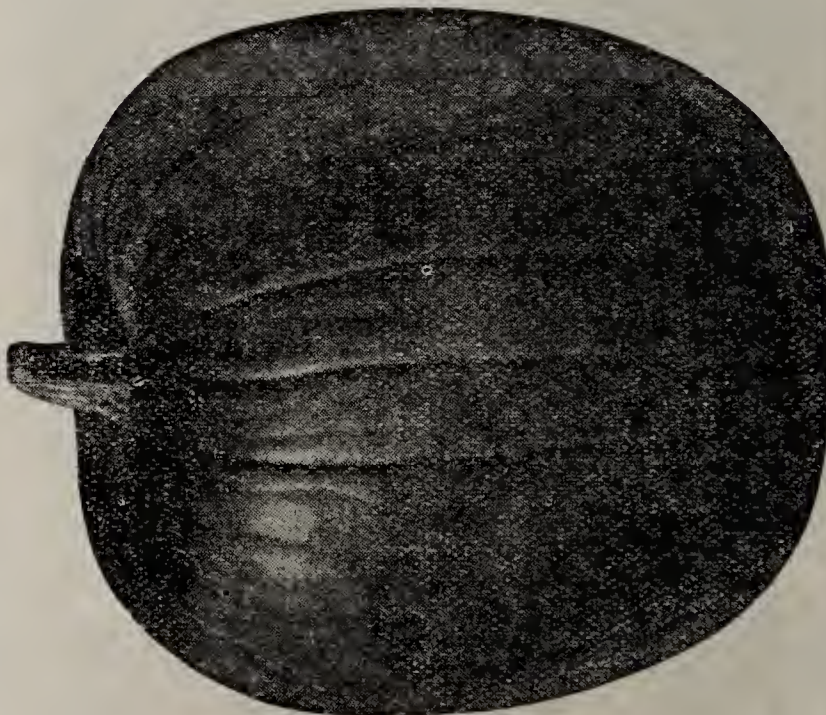
California Wonder

You will notice that we have already quoted this pepper at about the same price as other peppers. We were the first to introduce this superb pepper into this market and we secured the seed from a grower who specializes in only a few varieties such as Peppers and Tomatoes. Under the system adopted by this grower, in our opinion, a much higher grade of seed is obtained, but it costs much more to produce it and as a result the planter will be obliged to pay more for this superior seed. Some of our customers last year objected to this higher price, so this year we are quoting the regular California Wonder Pepper Seed as handled by other seed houses in addition to this special seed. Special Pkt., 15c; oz., \$1.00; 2 oz., \$1.75; ¼ lb., \$3.25.

Peanuts

The peanut thrives and produces best on a light, sandy, fertile soil, with a good clay subsoil. It posses a long tap-root which extends deep into the earth. Lb., 40c; postpaid.

Pumpkins



Connecticut Field

CONNECTICUT FIELD—A productive, large, orange-colored field pumpkin, usually grown for stock feeding, but it makes good pies.

WINTER LUXURY—Smooth, with thin, tender skin of a rich golden yellow. The flesh is very thick, sweet, fine-flavored, and excellent for pies.

MAMMOTH PRIZE—This colossal pumpkin is almost a globe in shape. Skin a rich golden yellow, flesh firm, fine grained and deep yellow, sweet flavored, very thick and of excellent quality.



Early Sugar

SUGAR—This variety is small, but of most excellent quality for pies. Fruits deep orange, eight to ten inches in diameter, round or somewhat flattened and slightly ribbed. Flesh rich, deep yellow, fine grained and very sweet.

POSTPAID**Connecticut Field, Sugar**

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$8.00

Mammoth Prize, Winter Luxury

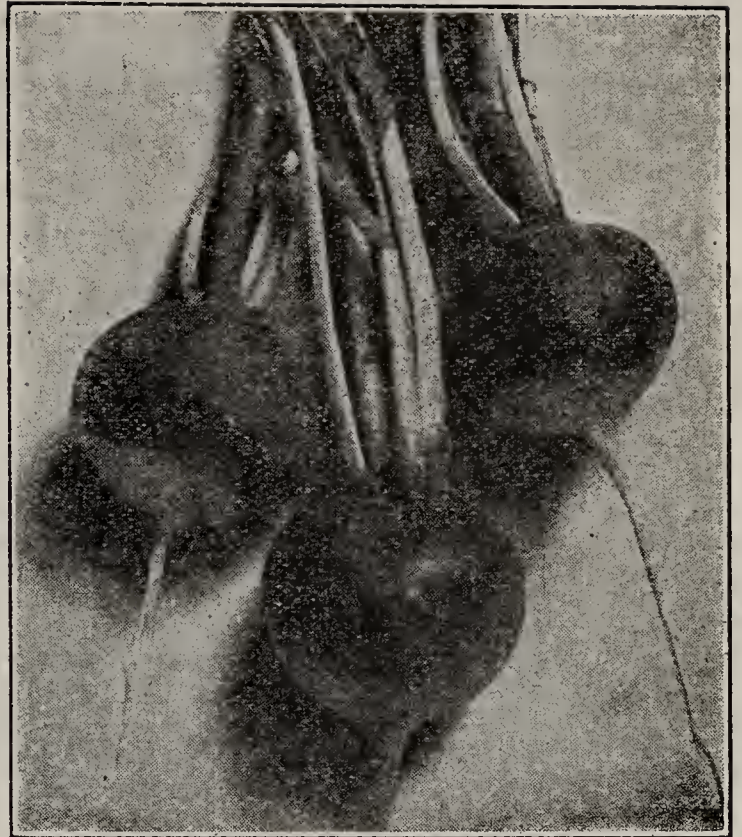
\$0.05	\$0.20	\$0.30	\$0.50	\$0.75	\$1.25	\$5.65	\$10.00
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Radishes

Turnip-Rooted, Early

EARLY SCARLET TURNIP—A small, round, red turnip-shaped radish, with small top, of quick growth; very early; crisp and tender.

SCARLET GLOBE—Similar in form to the Scarlet Turnip-Rooted, but much darker in color; flesh white, very crisp and tender, top small. well adapted for growing in frames.



Scarlet White Tipped

SCARLET, WHITE TIPPED — The favorite variety for outdoor cultivation; medium size, uniform shape; bright scarlet, with white tip, which makes it most attractive. Grows quickly; flesh white, crisp and of the best quality.

Long, Late

CHARTIER, IMPROVED—Roots long, attaining a large size. It remains crisp and tender until fully grown. Color, scarlet above, shading into white at the tip.



White Icicle

ICICLE, WHITE—Roots long and slender.



Crimson Giant

CRIMSON GIANT—A very early radish, double the size of any of the other early turnip-shaped type. Does not get hollow and pithy. The flesh is a sparkling white, solid and crisp. Excellent for both forcing and open ground.

pure white, very attractive. Crisp and tender both when young and until it attains a large size.

LONG SCARLET, RED—From six to eight inches long, standing nearly half above the ground; bright scarlet, smooth, crisp, tender and mild.

Olive Shaped, Medium Early

FRENCH BREAKFAST, OR HALF-LONG WHITE TIPPED — Medium size, of quick growth, crisp and tender; terminates more abruptly than the Half-Long Scarlet, lower end of tap root white.

Winter

BLACK SPANISH, LONG—Very hardy and good for winter use. Will keep good all winter. The roots, which present a rusty, black appearance, are large, firm and not liable to become pithy.

CALIFORNIA MAMMOTH, OR WHITE CHINA—Very large and cylindrical, terminating abruptly with little tap-root; mild and tender, and keeps well all winter. The skin and flesh are of a transparent white.

POSTPAID

All Radishes

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.50	\$0.80	\$3.25	\$5.00

Rhubarb

VICTORIA OR MAMMOTH—Very large; the finest cooking variety. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.25; 1 lb., \$2.25.

Salsify

Vegetable Oyster

MAMMOTH SANDWICH ISLAND—Of superior quality. Pure white. Very meaty and of fine flavor. Grows uniformly large. Pkt., 5c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.50; lb., \$2.50.

Squash

Summer

CROOKNECK, EARLY YELLOW—An early prolific kind having a solid curved neck; the skin is yellow, thin, hard and very warty, flesh tender and of good quality.

GIANT YELLOW STRAIGHTNECK—This is bred from the yellow crookneck and retains the warty, creamy, golden skin and fine quality of the parent stock, but is a great improvement over the old type. Plants are bushy and productive.

BURPEE'S BUSH FORDHOOK—The fruits are 6 to 8 inches long, slightly ridged, with a smooth, thin, light lemon-yellow skin. The flesh is sweet and delicious.

BUSH SCALLOP, EARLY WHITE—This is the well known, very early, somewhat flattened scalloped bush squash. The color is creamy white with comparatively smooth surface.

COCOZELLE—Also known as Italian Vegetable Marrow. The oblong fruits measure from 12 to 16 inches in length. Color dark green marbled with yellow and dark green stripes. Very productive. Unsurpassed in richness.

POSTPAID

Summer Squash

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$8.00

Winter

BANANA—Grows from one to two feet in length. Flesh firm and solid, of beautiful orange-

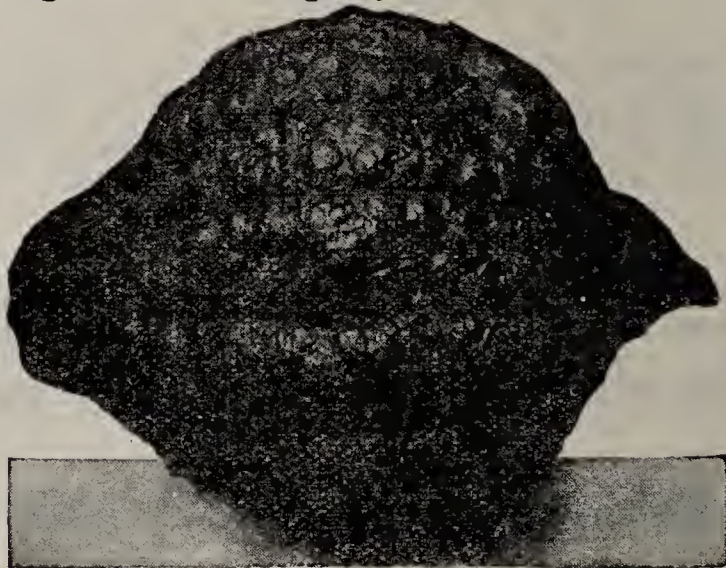


Banana

yellow, and excellent quality. Rind or shell smooth and grayish-green color.

CHILI MAMMOTH—Attains an enormous size, often reaching a weight of 200 pounds, and not infrequently weighs 300 pounds. Despite its size, its flesh is rich and fine flavored. It is especially desirable for stock feeding.

DELICIOUS—Delicious is a fall and winter variety. Medium size. The fruit is moderately hard, usually dark green, but sometimes lighter in color and mottled. The flesh is thick, very fine grained and bright yellow in color.



Warty Hubbard

HUBBARD, CHICAGO WARTY—The fruit is large, heavy and warted, with a very hard shell. The skin is uniformly dark bronze green. The flesh is bright orange-yellow, fine grained, thick, dry and richly flavored.

HUBBARD GOLDEN—The shell is moderately warted, hard, strong and of a beautiful orange-red color, except for a bit of olive-green on the blossom end. The flesh is deep orange, dry and richly flavored.

SIBLEY OR PIKE'S PEAK—Rind smooth, thin, pale green color. Flesh thick, solid, deep orange, dry, delicious flavor.



TABLE QUEEN, OR KITCHENETTE OR ACORN—A small acorn-shaped, very dark green squash, about 6 inches long and 4 inches in diameter. When fully ripe the rind turns to a bright orange color, but the squashes can be used before ripening, just as well as after.

Winter Squash—Postpaid

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$8.00

Spinach

DENMARK, KING OF—The leaves are thick, stand well after cutting and are of good quality.

NEW ZEALAND—The plant becomes very large and spreading. The leaves are comparatively small, broad and pointed. Plant three or four seeds in hills two feet apart each way. Keep leaves well picked and you will have delicious greens all summer.



Long Standing

LONG STANDING—An improved variety slow going to seed, and perhaps the best for general use.

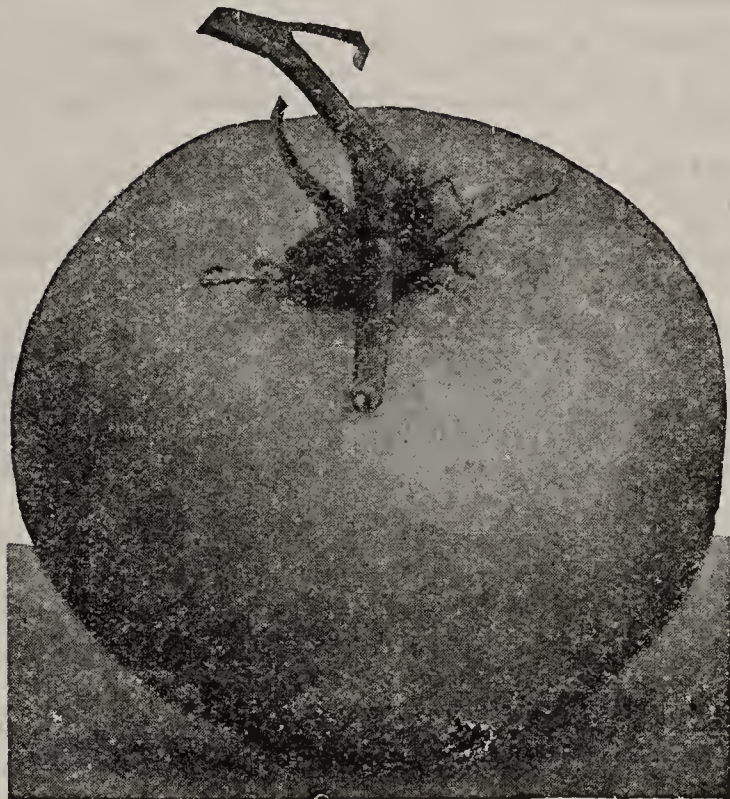
THICK LEAVED, IMPROVED—A rapid growing variety forming a cluster of large, thick, slightly savoyed leaves of fine quality when cooked. Popular with market gardeners.

POSTPAID

All Spinach

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.10	\$0.15	\$0.25	\$0.35	\$0.50	\$2.00	\$3.50

Tomatoes



The Burbank Tomato

THE BURBANK TOMATO — Fruit, bright crimson; thick, solid, heavy, smooth, firm, medium to large in size; superior quality, unusually heavy and continuous bearer throughout the season; best keeper and shipper.

BREAK O'DAY—A tomato outstanding for its early maturity and productiveness. The fruits are almost round and have a bright orange-scarlet skin. The vine growth is moderate. The fruits are solid and heavy, with small seed-cavities. Originated by the Department of Agriculture from a cross made between Marglobe and Marvana.

BONNIE BEST—A week later than Earliana, but with larger, smoother and sweeter fruits and also surpassing same in productiveness. The fruits are large, handsome, solid and deep



This cut shows our specially selected Earliana and Bonnie Best tomato seed in course of preparation.

through. Of bright scarlet color, ripening without any cracks or green core. Flesh thick, and of sweet flavor.

CHALK'S EARLY JEWEL—The large, handsome fruits are very solid and deep through. Color is brightest scarlet, ripening without any cracks.

EARLIANA, SPARKS'—The earliest large and smooth. The most perfect of all tomatoes. Of large, uniform size and beautiful red color. Quality almost beyond praise. A most vigorous grower and heavy bearer.

JOHN BAER—An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early sorts and are most attractive in color. They are nearly round, smooth, firm and of excellent quality.

MARGLOBE—A scarlet fruited variety of medium size, smooth, solid and deep, vines making medium to heavy growth, fruit setting in clusters from 5 to 7 and growing from 6 to 8 ounces. It is a cross between the Marvel and Globe. The flavor is midway between the acid and non-acid sorts.

STONE—Fine for main crop, very large; color bright scarlet; very smooth, ripening up to the stem without a crack; exceedingly solid.

Small Varieties

GROUND CHERRY OR HUSK—Plants of low, spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk or covering. When ripe the fruits are an inch in diameter, bright yellow and of very sweet flavor; highly esteemed for preserving.

YELLOW PEAR—The name denotes shape, also color. It is a rich, clear, yellow color and is one of the very best for preserving.

POSTPAID						
Pkt. 1 oz. 2 oz. ¼ lb. ½ lb. 1 lb.						
B. Best	}	\$0.05	\$0.35	\$0.60	\$1.00	\$1.75 \$3.00
C. E. Jewel						
S. Earliana ..						
J. Baer						
Stone						
Burbank	}	\$0.10	\$0.40	\$0.75	\$1.25	\$2.00 \$3.50
Marglobe						
Marketeer						
Break O'Day	}	\$0.10	\$0.50	\$0.90	\$1.65	\$3.00 \$5.00
Y. Husk						
Y. Pear						

Special Earliana and Bonnie Best Tomatoes

These are hand-picked, very carefully rogued, and the entire crop is planted for seed purposes only, no by-products used.

This stock yields much heavier, produces more even, smooth fruit than ordinary stock. It has proved its superiority by actual tests and comparisons made by our very best gardeners.

Pkt.	Oz.	2 Oz.	¼ lb.	½ lb.	1 lb.
\$0.15	\$0.50	\$0.90	\$1.65	\$3.00	\$5.00

Turnips

ABERDEEN, YELLOW—Round, medium size, light yellow; produces a large crop; flesh very firm, tender and sweet.

COWHORN—Sometimes called Long White is slightly crooked, pure white, except a little shade of green at the top. Grows half out of the ground.

EARLY FLAT WHITE DUTCH, STRAPPED LEAVED—A leading white-fleshed variety, of

medium size. The flesh is firm, but tender, and of a superior rich, buttery flavor.

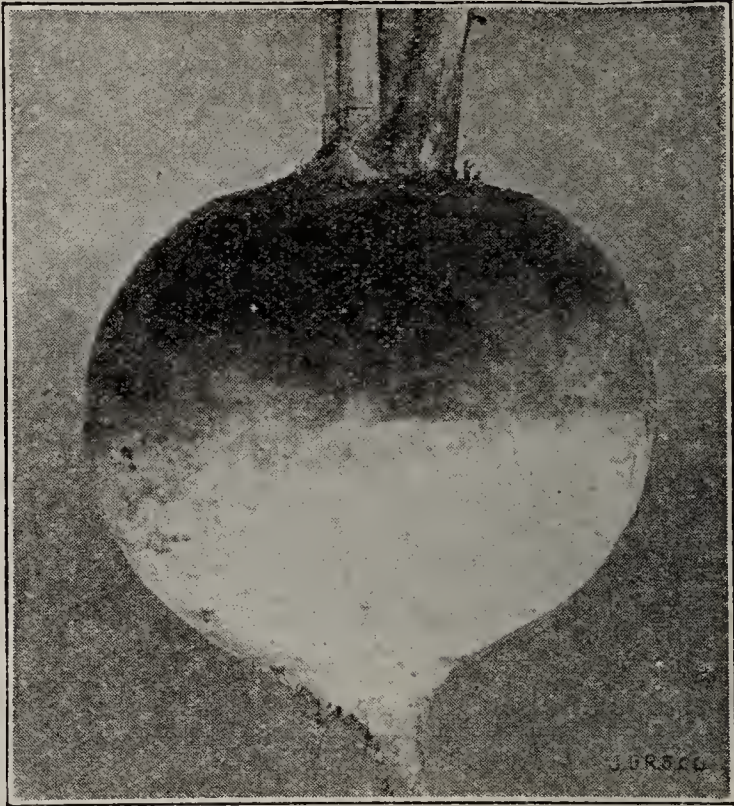
GOLDEN BALL—Or Orange Jelly. Globe shaped, yellow fleshed, smooth, attractive in appearance. Small top, flesh firm and crisp.

MILAN, WHITE—The earliest trunip. A fine, snowy-white color. The skin is so smooth and neat as to seem polished. Size medium, and the flesh is white, tender and smooth grained.

MILAN, PURPLE TOP—As early as the white Milan. Small top, erect, strap leaved, upper part a deep purple; lower, white; firm, white, sweet flesh.

POMERANIAN WHITE GLOBE — Perfect globe shape, skin white, smooth. Has unusual long feeding period before becoming pithy.

PURPLE TOP, STRAPPED LEAVED, EARLY —One of the best and most universally grown; small, erect top, round, flat; purplish red above; white underneath; flesh firm, but very tender.



Purple Top White Globe

PURPLE TOP WHITE GLOBE—A perfect globe shape, with smooth, white skin; flesh pure white, firm and crisp. Purple above ground.

SNOWBALL—A perfectly globe shaped, white skinned turnip. The flesh is fine grained, firm and of very delicate flavor. Very early.

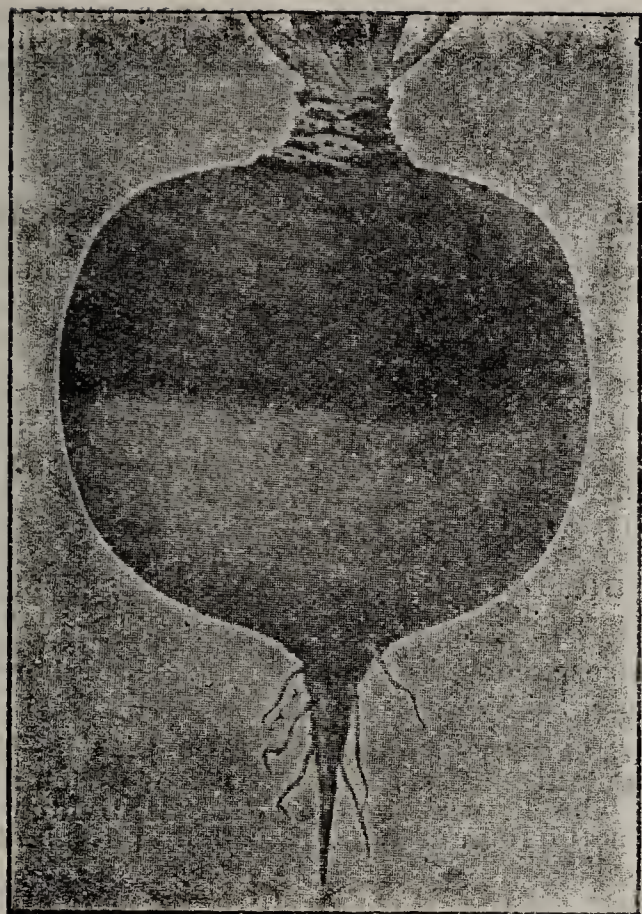
WHITE EGG—Egg-shaped, perfectly smooth, pure white variety, with small top and rough leaves. It grows half out of the ground.

POSTPAID							
All Turnips							
Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.50	\$0.75	\$3.00	\$5.00

Rutabagas OR SWEDES

AMERICAN PURPLE TOP—Shape oblong, dull reddish color above ground, but yellow underneath; is harder than the common turnip and will keep till spring.

BANGHOLM PAJBJERG (Improved Danish Purple Top)—The roots are of large size, slightly tankard shaped, with small neck and few or no side roots. The skin is yellow with purple top. The flesh is yellow, sweet and solid.



Danish Purple Top

WHITE SWEET RUSSIAN—This variety is most excellent, either for table or stock. It grows to a very large size; flesh white, solid, of a firm texture, sweet and rich; an excellent keeper.

POSTPAID**Both Rutabagas**

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.50	\$0.75	\$3.00	\$5.00

Herbs

CARAWAY—Grown for seeds; used for flavoring. Pkt., 10c; oz., 25c.

CATNIP OR CATMINT—Leaves and young shoots for seasoning. Pkt., 15c; oz., 75c.

CORIANDER—Seeds used in the manufacture of liquors, in confectionery and culinary preparations. Pkt., 10c; oz., 25c.

DILL—Seeds have an aromatic odor and pungent taste. Pkt., 10c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 65c; 1 lb., \$1.00.

MARJORAM—Sweet; leaves and shoots used for seasoning. Pkt., 10c; oz., 40c.

SAGE—Extensively used for seasoning. Pkt., 10c; oz., 75c; ¼ lb., \$2.50.

SUMMER SAVORY—Used for flavoring soups. Pkt., 10c; oz., 40c.

THYME—Leaves and young shoots used for seasoning; a tea is made from leaves, a remedy for headache. Pkt., 10c; oz., \$1.00.

Flower Seeds

In describing our flower seeds the letter (A) denotes annual variety; (B) biennial, and (P) perennial.

Flower Seed Information

A very valuable and interesting report has been forwarded to us by Bodger Seeds, Ltd., one of the leading flower seed growers of California.

Their report gives the results of a six year germination test on sixty-four varieties of flower seeds. Germination of all the different varieties was satisfactory the second year. In the third year test the germination of three varieties was not satisfactory. In the fourth year fourteen varieties proved unsatisfactory, the fifth year only one and the sixth year eight, making a total of twenty-six that failed to show a satisfactory germination at the end of the sixth year period. The tests also revealed the fact that a variety of Cosmos did not show any germination the first year but did prove satisfactory from the second until the end of the sixth year. Tests showed that nine varieties showed a better test the second year than they did the first year, eight a better test the third year than they did the first year, likewise three showed a better test the fourth year, two the fifth and two the sixth. It is therefore proved that the longevity of these sixty-four varieties range from two to six years.

A further fact is revealed that the period of germination requires from five to one hundred and eighty days, which accounts for the fact that frequently complaints are made that seeds have failed to grow, while the fact is that a sufficient time has not been given them to germinate. Another very interesting fact shown in this report is the number of seeds to the ounce. The heaviest seed reported is the Ricinus or Castor Oil Bean, 50 to the ounce, while the smallest is Musk Plant, one million to the ounce. Lobelia runs 750,000 seeds to the ounce; Ageratum 225,000; English Daisy, Fox Glove, Ice Plant, Nicotiana, Pyrethrum 200,000, and Portulaca 300,000.

There is a very wide range in prices of flower seeds, some being comparatively cheap and others extremely expensive. As an illustration, the growers ask for one variety of Petunias \$37.50 per ¼ ounce. At this rate one ounce would cost \$150.00; a pound, \$2,400.00; a hundred pounds, \$240,000.00. The gardener, therefore, must not be disappointed at the quantity of seed in the package or the price.

AGERATUM—Floss Flower (A)—One of the most useful and profuse-blooming plants known. The attractive feathery flowers borne in dense clusters are very useful for bouquets. Very desirable for outdoor bedding and borders, being covered with bloom nearly all summer. Mixed.

Pkt., 5c.

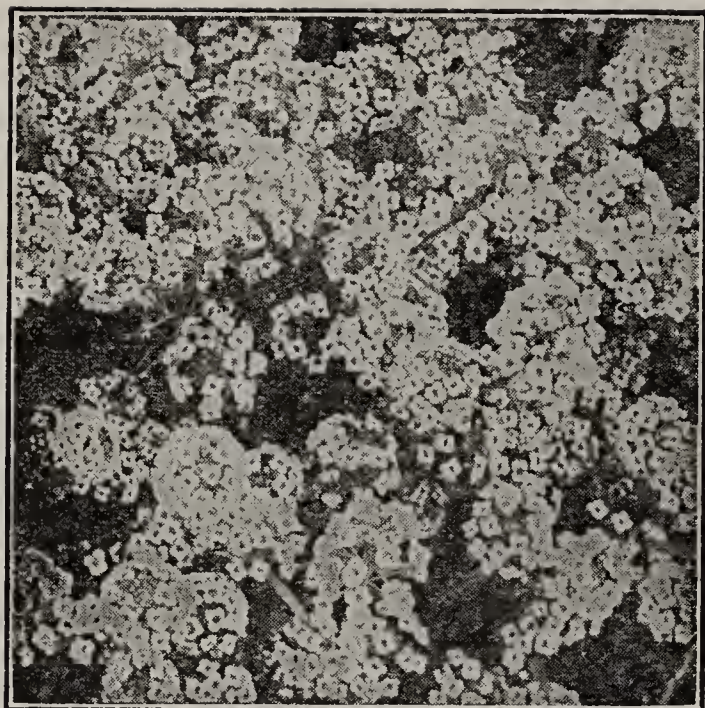
MEXICANUM COERULEUM—Blue. Pkt. 10c.

MEXICANUM GRANDIFLORUM—White. Pkt., 10c.

MARITIMUM (A)—Grown somewhat taller than carpet of snow. Flowers white. Honey scented. Pkt., 10c; ½ oz., 40c; oz. 75c.

LILAC QUEEN (A)—Of dwarf compact habit. Produces an abundance of bloom of a deep lavender lilac. Plants about six inches high. Pkt., 10c.

SAXATILE (P) (Basket of Gold)—A hardy variety bearing an abundance of yellow flowers in April and May about nine inches high. Pkt., 10c.



Alyssum

ALYSSUM (Carpet of Snow) (A)—The plants are very dwarf and spreading; they grow only

three to four inches high, and each plant completely covers a circular space 10 to 15 inches in diameter. They soon become one mass of white, remaining in full bloom from spring to fall. Pkt., 10c; ½ oz., 30c; oz., 50c.

AMARANTHUS (A)—Brilliant-foliaged, growing from three to five feet high, bearing curious racemes of flowers. Useful for the center of large beds.

Mixed: Pkt., 5c; ½ oz., 60c; oz., \$1.00.

TRI-COLOR, or JOSEPH'S COAT (A)—Foliage scarlet, yellow and green. Pkt., 10c; oz., 75c.

CAUDATUS (Love Lies Bleeding)—Blood red; drooping. Pkt., 5c; ½ oz., 30c; oz., 50c.

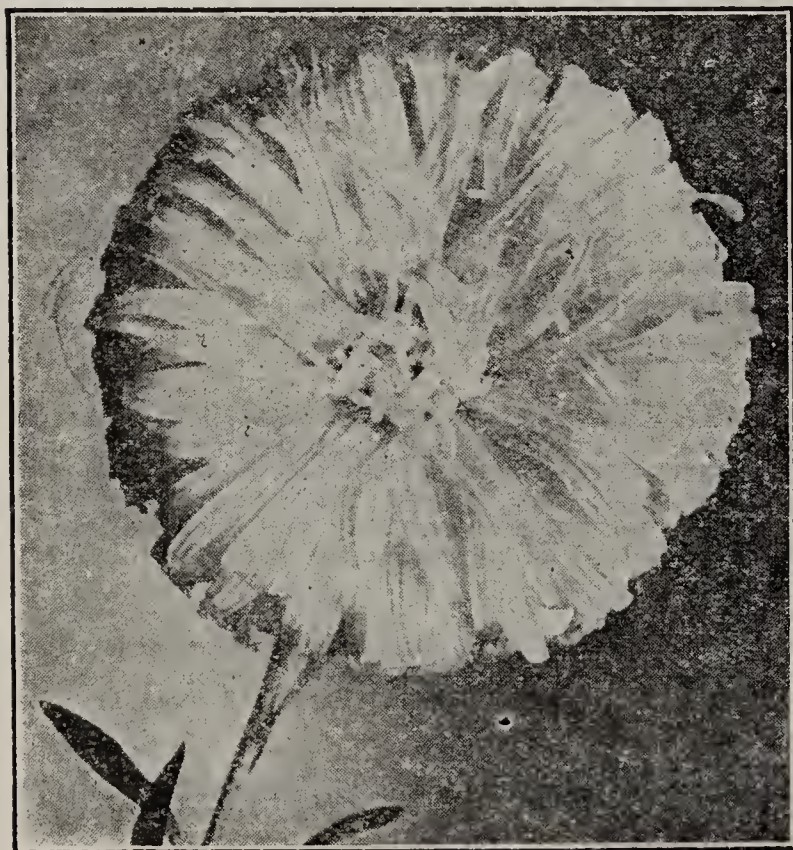
Single, Mixed Pkt., 10c.

ARABIS OR ROCK CRESS (P)—The blooms are produced in such great profusion that within a short time they appear like a mass of snow. They are excellent for rock gardens or borders. Pkt., 10c; ½ oz., 60c; oz., \$1.00.

ASPARAGUS (Plumosus Nanus)—A graceful foliage plant with fern-like leaves of a rich green color. The leaves are very finely divided and very useful for cutting. Excellent pot-plant. Pkt., 10c.

ASTERS

COMET GIANT (A)—Plants are of upright habit, about two feet high, producing long stemmed flowers composed of wavy petals. Flowers medium size, double and well formed. A good bedding variety. Peach Blossom, Light Blue, Dark Blue, White, Pink and Mixed. Pkt., 10c; ½ oz., 75c; oz., \$1.25.



Giant Comet

IMPROVED CREGO (A) PLANTS—Robust; about two feet high. The large double flowers are well formed, of the Comet type, making a very fine variety for all purposes. Azure Blue, Dark Blue, Crimson, Lavender, Pink, White and Mixed. Pkt., 10c; ½ oz., 75c; oz., \$1.25.



Improved Ostrich Feather

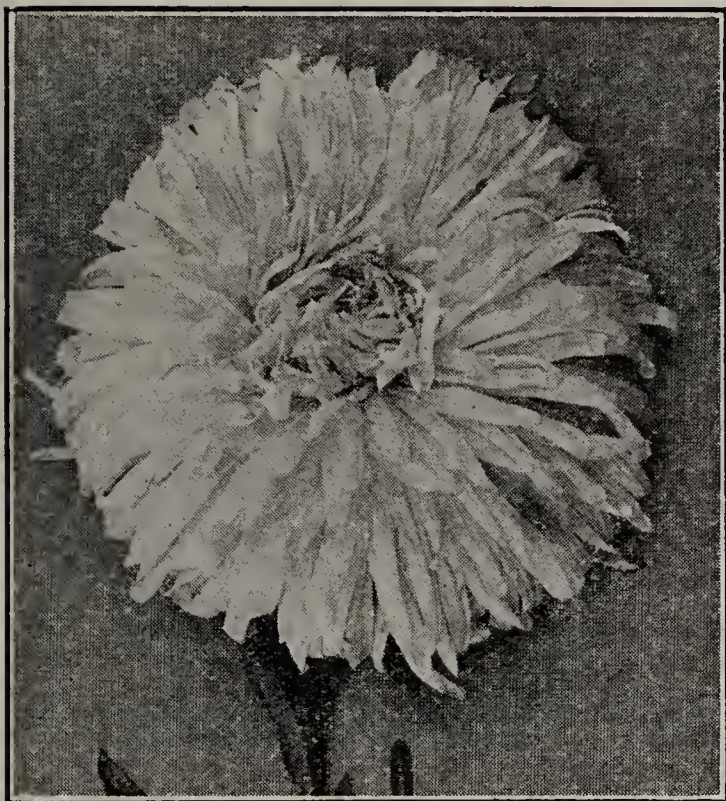
IMPROVED OSTRICH FEATHER (A) — Borne on long stems, which makes them cut flowers par excellence. Plants about 2½ feet high and robust in growth. Dark Blue, Rose Pink, Crimson, White and Mixed. Pkt., 10c; ½ oz., 75c; oz., \$1.25.

SPECIAL ASTERS

EARLY BEAUTY—This new type of Aster comes into bloom at about the same time as Cregos and American Branching. The plants grow from 2 to 3 feet high and are unusually vigorous. The large double flowers measuring from four to five inches across, are borne on long, stout stems ranging from 18 to 24 inches.

Mixed: Pkt., 15c; ½ oz., \$1.50; oz., \$2.50.

LATE BEAUTY (A)—Equal in every respect to the Early Beauty. Recommended for late asters. Mixed, Pkt., 10c; ½ oz., 75c; oz., \$1.25.



California Giants

CALIFORNIA GIANTS (A)—Larger flowers than the Improved Crego, often measuring five to six inches in diameter, and they are characterized by the Ostrich Feather type of flowers. Peach, Deep Rose and Mixed.

Pkt., 15c; ½ oz., \$2.00; oz., \$3.50.

SUNSHINE—Outer petals are long and narrow, whereas toward the center the petals are tubular, with a four-pointed star at the end.

Single Mixed, Pkt., 10c; ½ oz., \$1.00; oz., \$1.75.

HARDY PERENNIAL ASTERS (Michaelmas Daisies)—Single fall-flowering hardy herbaceous plants, thriving in any good garden soil. If sown early they will flower the first season; 3 feet. Mixed, Pkt., 10c.

ASTER-MUM—Of immense size resembling chrysanthemums in form, hence the name "Aster-mum" Rose Pink. Mixed, Pkt., 10c; ½ oz., 75c; oz., \$1.25.

Special Aster

SUPER GIANT LOS ANGELES—See page 1 for picture and description.

BACHELOR'S BUTTON, OR CENTAUREA CYANUS—Also called Corn Flower—(A)—A hardy annual, producing handsome flowers of a great variety of rich colors. Borne on tall, branching stems.

Double Mixed, Pkt., 5c; ½ oz., 25c; oz., 40c.

BALLOON FLOWER, or JAPANESE BELL-FLOWER (PLATYCODON) (P)—One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery.

Pkt., 10c.

BALSAM OR LADY'S SLIPPER (A)—A favorite garden flower, producing its gorgeous masses of beautiful brilliant-colored double flowers in the greatest profusion; 2 feet. Start the seed indoors in April or sow out of doors in May. To grow fine specimens they should not be closer than 18 inches apart.

Double Cameilla-Flowered—Mixed. The largest double variety. Pkt., 10c.

Single Cameilla-Flowered. Mixed, Pkt., 10c.

BLUE LACE FLOWER (A)—Grows into an upright plant of about two feet in height. Each branch ends in an umbel of light sky-blue flowers which spread out in an umbrella-like fashion, crowning each shoot with a beautiful and delicate head of flowers. Pkt., 10c.

CALENDULA (POT MARIGOLD) (A)—Very hardy, one foot high, blooming freely practically the whole year round. Is of the easiest culture and is desirable for rather inferior soils.

Double Mixed, Pkt., 5c; ½ oz., 20c; oz., 30c.

ORANGE BALL (A)—A very fine double calendula, a magnificent flower, growing to enormous size, and is outstanding because of its rich orange-yellow color. The flowers are well rounded and fully double to the center. The long-stemmed blooms are very fine for cutting.

Pkt., 10c; ½ oz., 25c; oz., 40c.



Candytuft

CANDYTUFT (A) (Iberis)—Showy, branching plants twelve to fifteen inches high and bearing in profusion terminal clusters of beautiful single cruciform flowers in a wide range of colors.

EMPRESS (A)—Giant White. Pkt., 10c; ½ oz., 30c; oz., 50c. Giant Mixed (A), Pkt., 5c; ½ oz., 25c; oz., 40c.

CALLIOPSIS (A)—A quick growing annual. The flowers are placed on graceful wavy stems and in color run through all the shades of red and yellow; dainty foliage. Tall double mixed. Tall, single. Mixed: Pkt., 5c; ½ oz., 30c; oz., 50c.

CANTERBURY BELLS (Campanula Calycanthemum) (Cup and Saucer)

(B) — Produces beautiful single flowers three inches in length with saucers three to four inches in diameter. The plants form pyramids of bloom bearing from 100 to 200 of these exquisite blossoms for weeks during the early summer. A hardy biennial 2½ feet high, flowering the second season from seed. White, Blue, Pink. Pkt., 15c; ½ oz., \$1.25; oz., \$2.00; mixed, all colors, pkt., 10c; ½ oz., \$1.00; oz., \$1.75.



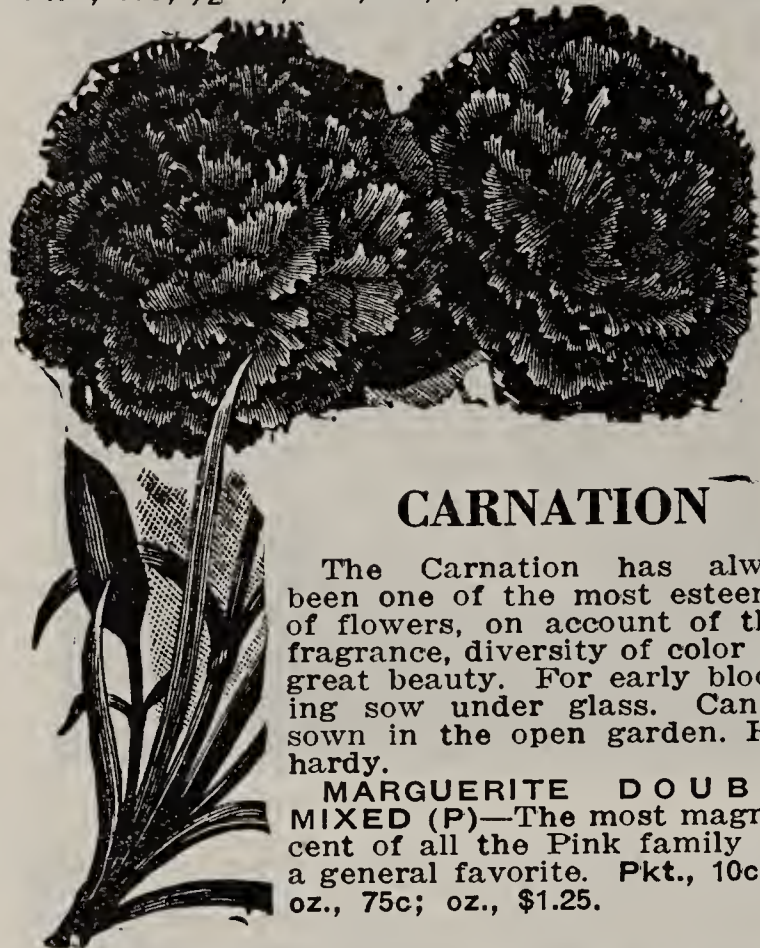
CANNA (P)—Enormous brilliant clusters of bloom borne on spikes above broad leaves of

green or bronze, in tropical effect. These are usually planted from roots or started plants, but they can be successfully grown from seed if planted early. The seed should be soaked in lukewarm water for 24 hours before sowing. About 3 feet high.

Mixed: Pkt., 10c; 1/2 oz., 25c; oz., 40c.

Single Mixed, pkt., 10c; 1/2 oz., 50c; oz., 80c.

PYRAMIDAL (B)—Stately hardy plant. Mixed. Pkt., 10c; 1/2 oz., 75c; oz., \$1.25.



CARNATION

The Carnation has always been one of the most esteemed of flowers, on account of their fragrance, diversity of color and great beauty. For early blooming sow under glass. Can be sown in the open garden. Half hardy.

MARGUERITE DOUBLE MIXED (P)—The most magnificent of all the Pink family and a general favorite. Pkt., 10c; 1/2 oz., 75c; oz., \$1.25.

GIANT MALMAISON (P)—An exceedingly fine mixture. Pkt., 15c; 1/2 oz., \$1.00; oz., \$1.50.

CHABAUDS EARLIEST FRENCH MIXED (P)—Produces double, sweet-scented flowers, in a great variety of colors and in great profusion. Pkt., 15c; 1/2 oz., \$1.00; oz., \$1.50.

Grenadin(A)—Early double scarlet flowers. Mixed, 15c.

Jeanne Diones—A beautiful clear white. Pkt., 15c.

The Pearl—Bright rose pink. Pkt., 15c.

Sparkler—An outstanding cardinal red. Pkt., 15c.

CATCHFLY (Silene) (A)—Hardy, yielding a profusion of bright colored flowers. Fine for border or rookery. Pkt., 10c; 1/2 oz., 30c; oz., 50c.

CENTAUREAS

MOSCHATA ALBA ROYAL SWEET SULTAN (A)—This is undoubtedly the finest of all Sweet Sultans for cut flower purposes. The beautiful sweet-scented artistic-shaped flowers are borne on long, strong stems. Mixed, Pkt., 10c; 1/2 oz., 40c; oz., 75c.

GYMNOCARPA OR WHITE LEAVED DUSTY MILLER (A)—Silvery white. Fine for bedding, vases, hanging baskets and pots. As an edging to a bed of dark-leaved Cannas or Scarlet Sage these are particularly effective. Sow the seed early indoors, and transplant in May. Pkt., 10c; 1/2 oz., 60c; oz., \$1.00.

CHILDSII, CHINESE WOOL FLOWER—(A)—A distinct form of the plumed Celosia, with beautiful, ball-shaped flower-heads of a purplish crimson color, somewhat resembling a ball of wool. It flowers profusely during summer and fall. Two to three feet tall. One of the finest fall-blooming annuals. Pkt., 15c.

CHINESE LANTERN (Physalis Franchetti) (P)—A hardy perennial grown for its showy scarlet-red seed-pods which are easily dried for

winter bouquets. The flowers are white, followed by the showy lanterns. Pkt., 10c.

Celosia

CELOSIA (COCKSCOMB (A))—Free blooming annuals, growing best in light soil not too rich. They make splendid border plants and are attractive for pot. Tall mixed, dwarf mixed, pkt., 10c; 1/2 oz., \$1.00; oz., \$1.75.

CELOSIA (Plumosa or Plumed) (A)—These stately plants are considered among the most ornamental. They generally form pyramidal bushes branching out in candelabra shape, and the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage. Two to three feet.

Mixed: Pkt., 10c; 1/2 oz., 50c; oz., 90c.

CHRYSANTHEMUMS (A)—These outdoor "summer Chrysanthemums" are showy and effective. Plants become more bushy and shapely if pinched back in early growth. These annuals are not the winter flowering sorts sold by florists and which are propagated only by division of roots. Double Mixed, Pkt., 10c; Single Mixed, Pkt., 5c.

CLARKIA (A)—Handsome, free flowering annuals of easy cultivation. Produce a fine effect massed in beds. Flowers are very bright and attractive. Double mixed, pkt., 5c; 1/2 oz., 60c; oz., \$1.00.

CLEOME (Spider Plant) (A)—Splendid border plant for shrubbery, 3 1/2 feet high. Each branch produces a large head of attractive flowers. Mixed, Pkt., 10c; 1/2 oz., 30c; oz., 50c.

COLEUS (P)—Magnificent ornamental foliage plants for house or garden culture. The leaves are of many shapes, and the shades and colors are of remarkable beauty. Finest Hybrids Mixed, extra choice, pkt., 25c.

COLUMBINE OR AQUILEGIA (P)—A delightful hardy perennial, growing about two feet high, and splendid for permanent beds and borders. Single mixed, pkt., 10c; 1/2 oz., 60c; oz., \$1.00. Double mixed, pkt., 10c; 1/2 oz., 75c; oz., \$1.25.

LONG SPURRED (P)—The long spurred varieties is unquestionably the finest yet produced. Large, beautiful flowers. Pkt., 15c; 1/2 oz., \$1.00; oz., \$1.75.

COREOPSIS (LANCEOLATA) (P)—Blooms the first year; flower rich yellow, single; very fine for cutting. Pkt., 10c.

COSMOS (A)—A hardy and rapid grower, forming bush-like plants with feathery green foliage, four feet high, covered with large flowers somewhat resembling the single dahlia.

	Pkt.	1/2 oz.	Oz.
Single Mixed	\$0.10	\$0.35	\$0.60
Double Mixed .....	.20	1.75	3.00

CYNOGLOSSUM AMABILE (Chinese Forget-me-not) (A)—An annual recently introduced from China; of the easiest culture, forming strong plants about 18 inches high and producing through the summer months sprays of intense blue Forget-me-not-like flowers. A splendid addition to the comparatively short list of real blue flowers. Pkt., 10c.

DAHLIA (P)—But few people know Dahlias can be raised from seed and will bloom the first year. Plant in a shallow box or pan early in March or April, transplant carefully as their growth demands.

	Pkt.	1/2 oz.	Oz.
Double Mixed	\$0.15	\$1.50	\$2.50
Single Mixed .....	.10	.75	1.25
Double Cactus .....	.15	2.50	4.50

DAISIES

AFRICAN DAISY (*Dimorphotheca Aurantiaca*) (A)—Its Marguerite-like blossoms, produced in great profusion, are $2\frac{1}{2}$ to $3\frac{3}{4}$ inches in diameter. These are a unique glossy rich orange gold, which brilliant coloring is rendered more conspicuous by the dark disk surrounding the black zone. Pkt., 10c.

BELLIS, DOUBLE ENGLISH DAISY (P)—A favorite perennial which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.50.



Shasta Daisy

SHASTA (P)—A most remarkable new flower, originated by Luther Burbank, of California; bears flowers of the snowiest white, with yellow centers; blooms the first season and should be sown in boxes early and transplanted.

Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

SWAN RIVER (*Brachycome*) (A)—Grow about 12 inches in height and blooms freely. Mixed, 10c.

DATURA (Angels Trumpet) (P) — Double trumpet shaped flowers. Height, 2 to 3 feet. Mixed, Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

DELPHINIUM (Larkspur) (P)—Very few plants are as stately, decorative and showy as these. They have a dignity peculiarly their own, with tall graceful spikes covered with bloom from top to bottom in an almost endless variety of colors.

	Pkt.	$\frac{1}{2}$ oz.	Oz.
Mixed	\$0.10	\$1.75	\$3.00
Dark Blue .....	.10	1.75	3.00
Light Blue .....	.10	1.75	3.00

Everlasting

ACROLINUM (A)—Double daisy-like flowers, about one-half inch in diameter. Borne singly on a long stem, leaves small, narrow. Grows about 15 inches high, double. Mixed, Pkt., 10c.

AMARANTH GLOBE (*Gomphrena Globosa*)—A very vigorous and free-flowering plant. Masses well for bedding, growing eighteen to twenty-four inches high. Mixed, pkt., 10c.

HELICHRYSUM (A)—Sometimes called Straw Flower. Large, full, double daisy-like flower heads. Desirable as dried specimens and for

use in making winter bouquets. Sow early in spring; thin to one foot apart each way. Hardy, 2 to $2\frac{1}{2}$ feet high. Monstrosum, fl. pl., finest mixed. Largest double flowers, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

HONESTY (*Lunaria Biennis*) (B) — Known also as Moonwort, Money and Peters Pence. Bloom is transparent, silvery, loose sprays, dries naturally and lasts all winter in dry bouquets. Pkt., 10c.

STATICE (Sea Lavender) (P)—One of the most highly prized among the everlasting flowers, as it consists of masses of small bright flowers on large sprays. Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

FALSE DRAGON HEAD (*PHYSOSTEGIA*) *Virginica* (P)—It forms dense bushes, 3 to 4 feet high, bearing freely during the summer months spikes of delicate pink tubular flowers not unlike a gigantic heather. Pkt., 10c.

FORGET-ME-NOT (*MYOSOTIS*) (P)—A modest little flower. A pretty trailer with blue flowers. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

FORGET-ME-NOT (*Semper Florens*)—Dwarf continuous bloomers; blue. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

FOUR O'CLOCK (*MIRABILIS*) (A)—Is also called Marvel of Peru. A handsome, free-flowering, sweet-scented plant. They open their blossoms about four o'clock in the afternoon. Choice mixed, pkt., 5c; $\frac{1}{2}$ oz., 25c; oz., 40c.

FOXGLOVE (*Digitalis*) (P)—Handsome, ornamental, hardy. The spikes are often three to five feet long and thickly strung with scores of thimble-shaped flowers. Mixed colors, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

GAILLARDIA (Blanket-Flower) (A) — Remarkable for the profusion, size and brilliancy of their flowers, continuing in bloom from early summer till November; excellent for beds, borders, or for cutting. Height $2\frac{1}{2}$ feet. Fine Mixed Double, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c; Perennial, Single, Mixed, pkt., 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.

GERANIUM (A) — Comparatively few are aware that Geraniums may be grown easily from seed. Very tender and must be protected from the slightest frost. Zonale Mixed, pkt., 20c; $\frac{1}{2}$ oz., \$1.75; oz., \$3.00.

GEUM (P)—Mrs. Bradshaw. Perennial of low growth sending up flower-stems two feet long. The flowers are double and measure two inches in diameter. They are a most intense orange-scarlet. Pkt., 15c.

GILIA (*Capitata*) (A)—Grows about 2 feet high with fine feathery foliage, globular heads, about 1 inch across, of rich lavender blue flowers. Mixed, pkt., 10c.

GODETIA (A)—Attractive and hardy. The plants bloom profusely and bear showy flowers of rich and varied colors. Tall double mixed, pkt., 5c; $\frac{1}{2}$ oz., 50c; oz., 75c.

GYPSOPHILA OR BABY'S BREATH (A)—A pretty, free-flowering plant. Fine for bouquets. Pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 30c. Perennial, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

HELIOTROPE (A) — Grows about 18 in. high. Small flowers, borne in graceful clusters and very fragrant. Blooms the first season from seed if sown early. Forms a large plant and requires a roomy situation. Can also be grown against a wall and made to assume the character of a climber. Finest mixed, pkt., 15c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.00.

HIBISCUS (*Marsh Mallow*) (P) — Large single bell-shaped flowers. Late bloomer. Pkt., 10c.



Heliotrope

HOLLYHOCKS (P) Chater's Superb Double
These fine, old-fashioned perennials are most striking when planted in groups of long rows; their variety of color is wonderful. Double mixed, pkt., 10c; 1/2 oz., 75c; oz., \$1.25.

HUNNEMANNIA OR BUSH ESCHSCHOLTZIA—Also known as the Santa Marbara Poppy. An erect-growing tender perennial, about 2 feet high. Foliage finely cut and about 3 to 4 inches across. Stems long and smooth. A fine flower for the garden. Pkt., 10c; 1/2 oz., 40c; oz., 70c.

ICE PLANT (A)—Six inches high. Leaves covered with crystalline drops. Flowers white or pink. Valued for its remarkable foliage. Pkt., 10c.

JOB'S TEARS (Coix Lachryma)—An annual ornamental grass, with broad, corn-like leaves and hard shining seeds of peculiar appearance, giving the plant its name. Two feet. Pkt., 5c.

KOCHIA CHILDSII (Mexican Fire Bush, or Summer Cypress) (A)—Symmetrical and attractive. The foliage is as fine as moss and of clean, bright, green color. Early in the fall innumerable little flowers appear and the bush takes on a deep red tinge. Pkt., 5c; 1/2 oz., 25c; oz., 40c.

LARKSPUR (A) (Delphinium)—The Larkspur with its long clustered spikes of beautiful irregular flowers, often with long spurs is especially valuable for its shades of blue.

Mixed	Pkt.	1/2 oz.	Oz.
Dwarf Double	\$0.05	\$0.40	\$0.65
Tall Double .....	.05	.40	.65

LINUM (Scarlet Flax) (A)—A very showy bedding plant, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers. Pkt., 5c; Blue, 5c.

Lobelia

LOBELIA (A)—A very valuable and beautiful dwarf-growing plant, delicate drooping habit and profusion of charming little blue and white flowers. Highly desirable for borders.

	Pkt.	1/2 oz.	Oz.
Dwarf S. Mixed.....	\$0.10	\$1.00	\$1.75
Dwarf S. Blue.....	.20	1.25	2.00
Tall S. Blue.....	.10	1.00	1.75

SAPPHIRE (A)—Deep blue with white eye trailing. Pkt., 10c.

CRYSTAL PALACE COMPACTA (A)—Dwarf, rich, bright blue. Pkt., 10c.

BEDDING QUEEN—Dwarfest, best for ribbon bedding. Flowers deep purplish-violet, with clear white eye. Pkt., 15c.

LUPINUS (A)—Free-flowering, easily-grown, with long graceful spikes of pea-shaped flowers; valuable for borders, beds and for cutting; prefers a little shade; 2 feet.

LUPINAS (Polyphyllus) (P)—Mixed, pkt., 10c; 1/2 oz., 40c; oz., 75c.

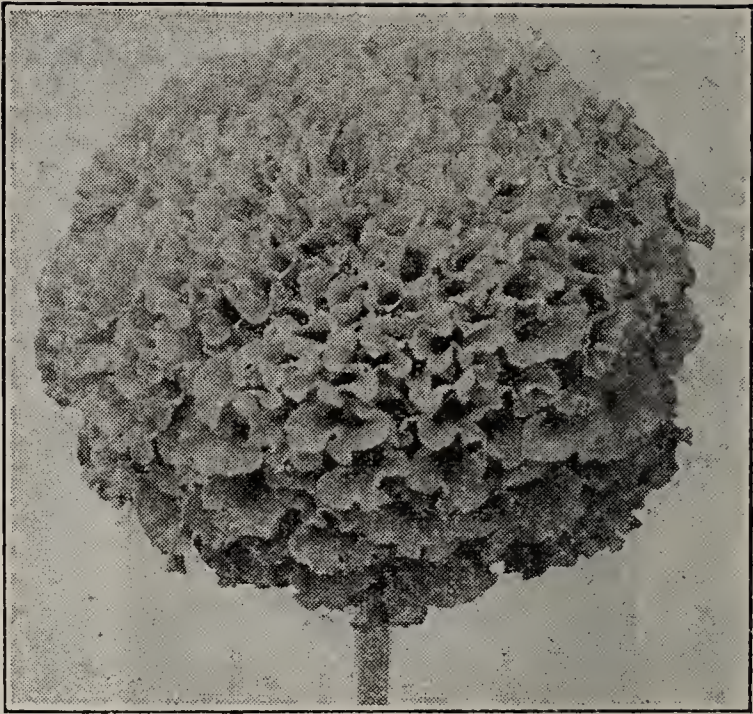
LUPINUS (Hartwegii) (A)—Mixed, pkt., 10c; 1/2 oz., 40c; oz., 75c.

Mignonette

ALLAN'S DEFIANCE (A)—Spikes grow to a remarkable size, of delicious fragrance. The individual florets are large and form a graceful spike. Pkt., 10c; 1/2 oz., 35c; oz., 60c.

GOLDEN MACHET—A compact growing variety with medium long thick spikes of yellow flowers, very fragrant. Pkt., 10c; 1/2 oz., 35c; oz., 60c.

MOSCHATUS (Musk Plant) (P)—Small yellow flowers, fragrant foliage; leaves musk scented; fine for hanging baskets. Pkt., 10c.



Marigold

MARIGOLD

Tagetes (A)—The African varieties grow two to three feet tall, bear large yellow or orange-colored flowers, and are adapted for large beds or mixed borders. The French varieties are dwarfed in growth, with beautiful striped flowers three to four inches in diameter, and are better suited for bedding and pot culture.

African

QUEEN—Extra large, round, double flowers of a clear canary-yellow. The beautiful flowers combine large size with good form and beautiful coloring. Tall.

ORANGE BALL—Enormous double flowers of intense rich orange. The flowers are produced in great profusion from July until frost. Tall.

DWARF DOUBLE—About one and one-half feet high; large flowers; desirable for shrubbery or mixed border. Mixed.

TALL DOUBLE—About two feet high with flowers three to four inches in diameter, in shades of yellow and orange. Mixed.

	Pkt.	1/2 oz.	Oz.
Lemon Ball	\$0.10	\$0.75	\$1.25
Orange Ball .....	.10	.75	1.25
Dwarf Double .....	.10	.40	.65
Tall Double .....	.10	.40	.65

French

DWARF DOUBLE—One foot high with large flowers. Mixed.

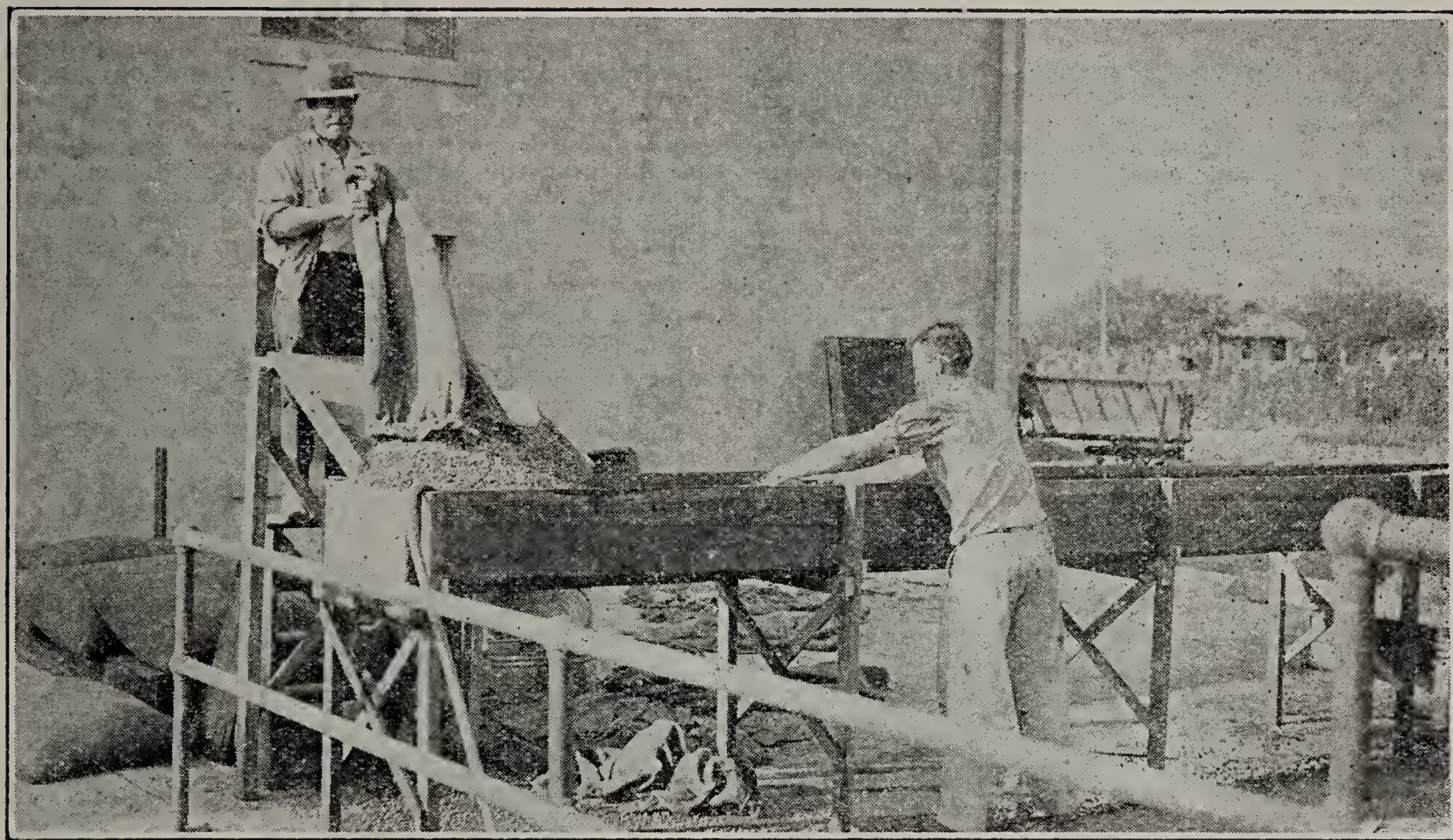
TALL DOUBLE—One and one-half feet high with large double flowers. Mixed.

LEGION OF HONOR—A lovely variety with single flowers borne profusely and continuously. The blooms are rich golden yellow, marked with a large spot of velvety crimson at the base of each petal. Of compact growth. 9 inches in height.

GOLDEN BALL—Bright orange, dwarf, double.

	Pkt.	1/2 oz.	Oz.
Dwarf Double	\$0.10	\$0.40	\$0.65
Tall Double .....	.10	.40	.65
Legion of Honor .....	.10	.40	.65
Golden Ball .....	.10	.40	.65

MARIGOLD, (Guinea Gold)—See page 2 for picture and description.



This scene represents our Nasturtiums being prepared for our customers.

NASTURTITIUM

For ease of culture, duration of bloom and brilliancy of color, nothing excels Nasturtiums. All they need is a sunny position, and from within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms.

GOLDEN GLEAM (A)—It is semi-tall running from 2 to 2½ feet high. Sweet scented, with long stems. The plant forms a vigorous, large bush which throws out short runners, averaging eighteen inches. The flowers commence as soon as the plant nears complete development, and at the time it is in full bloom the entire plant, including the runners, is a blaze of color. The large golden yellow flowers average two and one-half to three inches across. They are borne on erect, stiff stems six inches in length. Consequently the flowers stand well above the foliage, an arrangement which adds immeasurably to the showy appearance of the plant. Pkt., 10c; oz., 40c; 2 oz., 75c; ¼ lb., \$1.25.

Dwarf

FINEST MIXED—This mixture is selected from the very finest varieties and when planted in beds or masses will present a most brilliant and pleasing effect. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; lb., \$1.00.

Tall

FINEST MIXED — This is a very superior mixture and consists of a number of the best-known varieties and will, without doubt, prove highly satisfactory. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; lb., \$1.00.

NEMOPHILA — BABY EYES — LOVE-IN-THE-GROVE (A) — The pretty, bell-shaped flowers are freely produced all summer. Plants eight inches high; of neat, bushy habit. Mixed, pkt., 5c.

NICOTIANA — AFFINIS (Tuberose-Flowered Tobacco) (A)—Delightfully sweet-scented, tubular flowers, blooming continually; annual, two to three feet high. Mixed, pkt., 10c.

NIGELIA—LOVE-IN-A-MIST or DEVIL-IN-THE-BUSH — DAMASCENA (A)—A compact, free-flowering plant with finely cut foliage, curious-looking flowers and seed pods, mixed. Height, one foot. Double pkt., 10c.

NEMESIA (A)—A splendid border plant. Early and a continuous bloomer.

Blue Gem—Resembles Forget-Me-Not. Pkt., 15c.

PANSIES



Mastadon

MASTADON (Mixed)—These have been carefully re-selected and bred up to their present ex-

cellence, and for giant size, substance, form and coloring they are unsurpassed. Pkt., 25c; 1/2 oz., \$2.50; oz., \$4.00.

PANSY — (VIOLA ARICOLOR) (P)—A half hardy perennial, growing four to six inches high and probably the best known and among the most popular flowers in cultivation, thriving best in a moist, shady location, and in rich, loamy soil.

TRIMARDEAU GIANT MIXED—Flowers of richest and most varied shades. Plants hardy and vigorous. A very fine mixture.

Pkt., 10c; 1/2 oz., \$1.50; oz., \$2.50.

MASTERPIECE—Frilled, Mixed — A splendid mixture of various shapes and markings. The blossoms are perfectly round and are blotched at the base. Pkt., 15c; 1/2 oz., \$2.00; oz., \$3.50.

PENTSTEMON (P)—Beard Tongue. Bright bell-shaped flowers, long spikes, free bloomer. Mixed, pkt., 10c.

PETUNIA



Petunia

PETUNIA (A)—Of easy culture, early to bloom and continues throughout the summer until the first killing frost. No other flower produces a greater diversity of color, retaining its freshness for so long a period.

Single Mixed, pkt., 10c; 1/2 oz., 90c; oz., \$1.50.
Single Fancy Mixed, pkt., 15c; 1/2 oz., \$1.10; oz., \$2.00.

CALIFORNIA GIANTS (A)—Flowers very large in great variety of colors and markings with yellow throats. Fringed. Mixed, Pkt., 25c.

CITY OF PORTLAND (A)—A very fine shade of pink. Large flowers ruffled. Pkt., 25c.

ELKS PRIDE (A)—A very rich purple with a velvety black lustre over all. Large single flowers. Pkt., 25c.

ROSY MORN (A)—A bright rosy pink, with silvery white throat, very charming, compact, and free flowering. Makes a very dainty and effective border. Pkt., 10c.

DOUBLE FRINGED PETUNIAS—Clover Leaf mixture of double fringed petunias is carefully selected from the best large flowering double fringed plants. It is well understood that the flowers are not all double, but those that come single will be fine large blooms. Mixed, pkt., 30c.

PINKS

DIANTHUS—The Pinks are old-fashioned favorites and have much variation in color. Both the single and double Pinks are well adapted for bedding and borders, and are suitable also for cutting as the stems are of good length and the brilliantly colored flowers contrast vividly with the rather narrow, bright, light green leaves about one foot high.

Single or double. Pkt., 10c; 1/2 oz., 50c; oz., 80c.



PLUMARIUS (Grass Pink) (B)—A beautiful hardy pink. Fringed-edged flowers. Sweet scented. Single mixed. Pkt., 10c; 1/2 oz., 50c; oz., 80c.

PHLOX

PHLOX DRUMMONDI (A)—Of all summer-flowering annuals, the varieties of Phlox Drummondii are unquestionably one of the most brilliant and satisfactory. Seed may be sown in the open ground any time after danger from frost is past, and in a few weeks the beds or borders are aglow with their brilliant coloring and remain so until cut down by frost. For early flowering they should be started indoors or in a hotbed. Grandiflora Mixed, pkt., 10c; 1/2 oz., 75c; oz., \$1.25. Perennial Mixed, pkt., 15c; 1/2 oz., \$1.75; oz., \$3.25.



Phlox Drummondii

STAR (A)—The flowers are rich rose with a distinct white star-like center surrounding a narrow ring of deep, rich red. It is a magnificent flower, well rounded, and always very large. Pkt., 10c; ½ oz., 75c; oz., \$1.25.

POPPIES

CARMINE KING (A)—Beautiful carmine rose color, both on the interior and exterior of the flower. Very handsome. Single. Pkt., 10c; ½ oz., 45c; oz., 75c.

GOLDEN WEST (A) (Eschscholtzia)—Commonly known as California poppy. This is the best known of this species of poppies and has been a great favorite wherever sown. Color, rich, rare tints of yellow and orange; very beautiful. Single. Pkt., 5c; ½ oz., 20c; oz., 35c.

MIXED (A)—This is a special mixture and comprises many of the best named varieties and embraces all colors and shades of the Eschscholtzia California type of poppies. Pkt., 10c; ½ oz., 45c; oz., 75c.

Miscellaneous

ICELAND (P)—A graceful, delicate variety, the petals resembling crumpled tissue paper. The plant is low-growing, but the stems are long and slender. Single. Mixed, pkt., 10c; ½ oz., 90c; oz., \$1.50.

ORIENTAL (P)—One of the showiest of the perennials, with enormous flowers. The leaf is long and deeply cut and clothed with white, bristly hair. Single.

Mixed, pkt., 10c; ½ oz., \$1.00; oz., \$1.75.

PAEONY FLOWERED (A)—Large, showy flowers, closely resembling a small Paeony. Profuse bloomer. Double mixed.

Pkt., 10c; ½ oz., 25c; oz., 40c.

SHIRLEY IMPROVED (A)—The most beautiful type of poppies, having soft, hairy foliage, and a great variety of blossoms. Free blooming and fine for bedding or tall border. Single. Mixed. Pkt., 10c; ½ oz., 25c; oz., 40c.

PORTULACA OR ROSE MOSS (A)—Brilliant, dwarf, only six inches high, luxuriating in warm situations and blooming profusely from early summer to autumn. For masses of color, from spring until frost, they are indispensable.

Single Mixed, pkt., 10c; ½ oz., 60c; oz., \$1.00.
Double Mixed, pkt., 15c; ½ oz., \$2.00; oz., \$3.50.

PRIMROSE

PRIMULA VULGARIS (P)—The beautiful wild English Primrose. It grows best in shady places. The seed is very slow in germinating and may stay in the ground a year, but once established, the plants are quite hardy. The flowers are clear yellow with touch of orange at base. Six inches in height. Pkt., 25c.

PRIMROSE—SINENSIS OR CHINESE (P)—The beautiful, large fringed flowers stand in pyramids arranged on short flower stems, specially fine for winter and spring flowers in the house; easily grown; free bloomers. Finest single mixed. Pkt., 25c.

OENOTHERA (Evening Primrose) (A)—A free bloomer producing bright colored single flowers which opens on the approach of twilight. Pkt., 10c; ½ oz., 40c; oz., 75c.

PYRETHRUM (A)—A fine hardy plant with large daisy-like flowers. Blooms during May and June. A free bloomer and flowers most excellent for cutting. Foliage and flowers both very ornamental. Large flowering Double and Semi-Double and Single Mixed. Pkt., 20c.



RICINUS, OR CASTOR OIL BEAN (A)—Ornamental plants of steady growth and picturesque foliage with brilliant colored fruit, producing a sub-tropical effect; fine for lawns, massing or center plants for beds.

Finest Mixed, pkt., 5c; oz., 20c.

SALVIA (America)—These attractive bushy plants do not grow over 15 inches high, with the spikes of brilliant scarlet flowers thrown well above the plant, making a total height of about 2 feet. Pkt., 15c; ½ oz., \$2.25; oz., \$4.00.

SCABIOSA OR MOURNING BRIDE (A)—A free-flowering annual. Very effective for garden decoration and valuable for cutting. Dwarf or tall double mixed.

Pkt., 10c; ½ oz., 35c; oz., 60c.

SCHIZANTHUS (Butterfly Flower) (A)—Hardy, growing one and one-half to two feet high and covered with bright, showy, butterfly-like blossoms. Large flowering.

Mixed, pkt., 10c.

SNAPDRAGON, OR ANTIRRHINUM (P)—One of the most useful and showy plants. Of almost every shade and color. They have recently been much improved and are now really magnificent. Hardy perennial. Tall.

Finest Mixed, pkt., 10c; ½ oz., 45c; oz., 75c.

MEDIUM TALL

Queen Victoria—White.

Golden Queen—Yellow.

Copper King—Red copper.

All named varieties. Pkt., 10c; ½ oz., \$1.00; oz., \$1.75.

Mixed, Pkt., 10c; ½ oz., 40c; oz., 75c.

SNOW IN SUMMER (Cerastium Tomentosum) (P)—A very pretty dwarf white leaved edging plant, bearing small white flowers suitable for the rockery or for dry sunny spots or steep banks. Pkt., 15c.

SNOW ON THE MOUNTAIN (*Euphorbia Variegata*) (P)—Suitable for beds or borders. Small white flowers. The foliage is exceedingly ornamental, being veined and marked with broad white bands on rich green ground. Pkt., 10c.



Salpiglossis (Velvet Flower)

SALPIGLOSSIS (A)—The quaint, funnel-shaped flowers somewhat resemble those of the Petunia; beautiful range of colors.

Finest Mixed, pkt., 10c; 1/2 oz., 60c; oz., \$1.00.

STOCKS

STOCKS—Sometimes called Gilliflower. Considered almost indispensable where a fine display of flowers is wanted. They produce dense spikes of very fragrant and beautiful rosette-like double flowers.



Stock

MATTHIOLA BICORNIS (A) Evening Scented Stock—No annual in cultivation equals this in delicate perfume of its flowers. The pink and lilac blossoms partly closed during the day, expand and impart their fragrance in the evening. 12 to 15 inches. Pkt., 5c; 1/2 oz., 30c; oz., 50c.

MAMMOTH EARLY BRANCHING NICE (A) Because of their branching habit they produce a great many blooms, hence has become very popular not only with the florists but also for the home flower bed. For fragrance, brilliancy, diversity of color, profusion and duration of bloom they are unsurpassed. Double Mixed.

Pkt., 10c; 1/2 oz., \$1.25; oz., \$2.00.

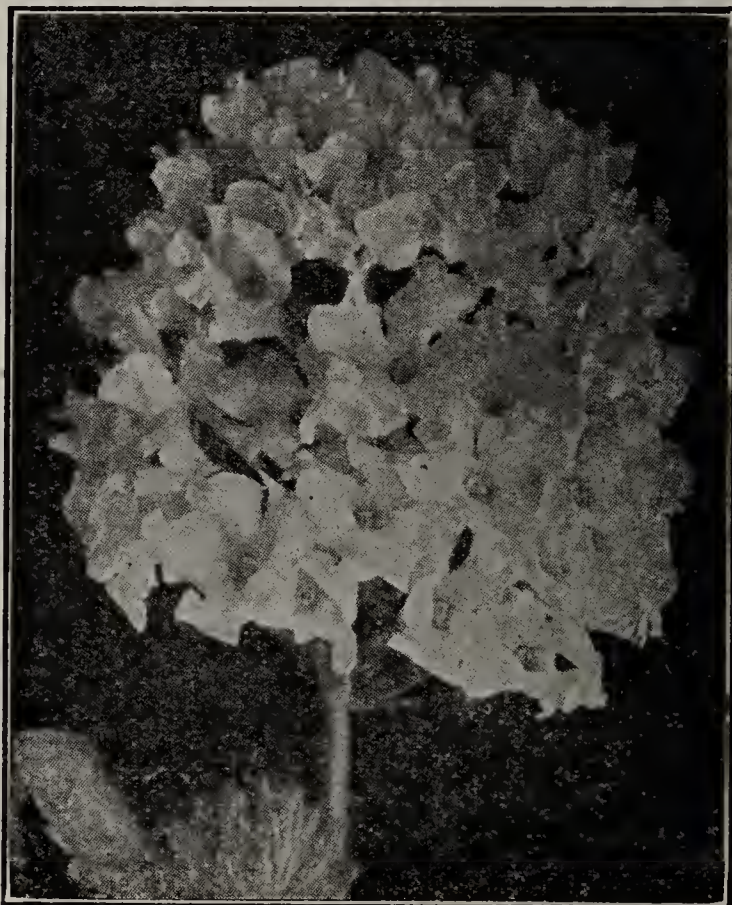
DRESDEN PERPETUAL OR BRANCHING (P)—These ever-blooming stocks are popularly called "Cut and Come Again." Sown in March they flower profusely from July until frost; their best period being late autumn. Very fragrant. Double, Mixed, pkt., 10c; 1/2 oz., \$1.25; oz., \$2.00.

SUNFLOWER (*Helianthus*) (*Double Chrysanthemum Flowering*) (A)—This pretty sunflower grows to be about 3 feet high and has late in summer bright golden yellow flowers on stiff stem, fine for cutting. This is a pretty and refined flower, four inches across. Pkt., 5c; 1/2 oz., 25c; oz., 40c.

SWEET ROCKET (*Hesperis*) (P)—Among the most desirable of hardy flowers, also known as Dame's Rocket and Dame's Violet; grows from two to three feet high and bears spikes of showy fragrant flowers. Mixed. Pkt., 5c.

SWEET WILLIAM (P)—A well-known, attractive free flowering, hardy perennial, producing a splendid effect in beds and borders with rich and varied flowers. Mixed Double, pkt., 10c; 1/2 oz., 50c; oz., 90c. Mixed Single, pkt., 10c; 1/2 oz., 30c; oz., 50c.

THUNBERGIA (*Black-Eyed Susan*) (A)—One of the best trailing plants for boxes, vases, etc. Neat, compact growth. The pretty flowers, an inch in diameter. Mixed, pkt., 10c.



Verbena

VERBENA (A)—Very few annuals will make such a gorgeous display during the summer months. Start seed in the house or under glass early in the spring and transplant after three or four inches of growth. They flower in July.

and continue until frost. Mammoth Extra Choice, Mixed, pkt., 10c; ½ oz., 75c; oz., \$1.25.

VINCA (Periwinkle) (P)—Very attractive plants with glossy green foliage, suitable for summer bedding and borders. If sown early under glass and transplanted in a warm, sheltered situation will bloom in summer and autumn and may be potted for the house before frost. About 15 inches high. Mixed, Single, pkt., 10c.

WALL FLOWER (P)—Produces spikes of beautiful, exceedingly fragrant flowers. Half-hardy. Mixed, Single, large flowering, pkt., 5c; ½ oz., 35c; oz., 60c. Mixed, Double, pkt., 20c; ½ oz., \$2.25; oz., \$4.00.

GARDEN MIXTURE (A)—A garden is not complete without a bed of this mixture of flowering annuals. A package will sow a bed about two by ten feet, and if sown early in the spring will furnish continual bloom throughout the season.

	Pkt.	Oz.	2 Oz.	4 Oz.
Annuals	\$.10	\$0.30	\$0.50	\$0.90
Perennials .....	.10	.35	.60	1.00

VIOLA CORNUTA—Tufted Pansies (P)—Viola is often mistaken for a small pansy. It belongs to the same family and is one of the best for borders. Very attractive. Free blooming. Mixed. Pkt., 15c.

VIOLETS (P)—Violet Odorata is the well-known English violet, a free-flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded moist places. Very early bloomer. Sweet scented, very pretty and very popular and a beautiful blue. Pkt., 10c.

ZINNIAS—Dahlia Flowered

ZINNIAS (A)—Are one of the most brilliant and showy annuals and have been very greatly improved the last few years. The outstanding type at the present time is what is known as Dahlia Flowered.

We offer the following outstanding varieties in straight colors, and recommend these as being among the very best.

CRIMSON MONARCH—By far the largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit.

GOLDEN STATE—An excellent color. Rich golden yellow, shading to orange as the flower ages. Blooms are large, of true Dahlia form, borne on long stems.



Dahlia Flowered

EXQUISITE—This is one of the most pleasing of this new collection of Giant Dahlia Flowered Zinnias as regards form and size. A striking self color of deep rose.

The foregoing three Dahlia Flowered Zinnias. Pkt., 10c; ½ oz., 90c; oz., \$1.50.

SPECIAL MIXTURE—This special mixture of Dahlia Flowered Zinnias has been grown as separate colors in the field and then mixed in the proper proportions, resulting in a far better mixture than when grown in the field as a mixture. Pkt., 10c; ½ oz., 90c; oz., \$1.50.

California Giants

CALIFORNIA GIANTS—As their name implies flowers are of immense size, very showy and attractive and the following are highly recommended.

ENCHANTRESS—Color same as Exquisite in Dahlia Flowered type.

LEMON QUEEN—Lemon Orange.

MISS WILMOT—A beautiful soft pink.

ORANGE KING—Cadmium or burnt orange.

ROSE QUEEN—Striking bright rose.

SCARLET GEM—Glowing scarlet.

FINEST MIXED—Price per pkt., 10c; ½ oz., 90c; oz., \$1.50.

NEW GIANT PICOTEE—The beautiful flowers are of a Giant type, each petal distinctly tipped with a darker shade as in Picotee Carnations. Mixed, pkt., 10c; ½ oz., 90c; oz., \$1.50.

LILLIPUT—Plants 4 to 6 inches compact covered with well formed flowers. Colors range through the red, orange, yellow, pink and other shades. Excellent for pot plant use or for borders. Mixed, pkt., 10c.

ZINNIAS (Elegans Grandiflora Double)—These are known as the old type Zinnias, and while they do not compare in any way with the Dahlia Flowered type, there has been a great improvement in this type since they were first introduced, and they are now a beautiful flower. Mixed, pkt., 5c; ½ oz., 40c; oz., 75c.

ROCK GARDEN

The following varieties are especially recommended for Rock Gardens.

Annuals

African Daisy	Portulaca, Double
Alyssum, Sweet	Stock
Ice Plant	Verbena

If bought separately, they would cost 65c. Any six, 60c.

Perennials

Alyssum Saxatile	Dianthus
Arabis	Geum
Asters	Linum
Candytuft	Poppy, Iceland
Canterbury Bells	Snow in Summer
Columbine	Viola

If purchased separately, these would cost \$1.30. Any twelve, \$1.10.

Sweet Peas

MIXED GRANDIFLORAS

OUR CLOVER LEAF MIXTURE is blended in the proper proportions and good seed only is used. Therefore, it is highly dependable.

Pkt., 5c; large package, 15c; oz., 15c; 2 oz., 25c; ¼-lb., 40c; ½-lb., 75c; 1-lb., \$1.25.

MIXED SPENCERS

OUR CLOVER MIXTURE is highly dependable, and with proper care should give very satisfactory results. Pkt., 10c; large package, 25c; oz., 20c; 2 oz., 35c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.50.

STANDARD SPENCERS

All the following 15 varieties of choice Spencer Sweet Peas: Pkt., 10c; any 6, 50c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.25; lb., \$2.25.

Blue MRS. TOM JONES—Bright delphinium-blue. The flowers are very large and of great substance; beautifully waved.

WEDGEWOOD—Bright, silver blue. Large, well waved flowers on long stems.

Cream DOBBIE'S CREAM—A strong growing, cream or primrose. A profuse blooming variety, with large flowers.

Crimson KING EDWARD—Deep rich crimson; a strong and beautiful color. Does not fade or scorch.

Lavender ASTA OHN—An exquisite rosy lavender. Flowers large and well waved.

Maroon WARRIOR—The color is a rich reddish, maroon flushed with bronze.

Orange THE PRESIDENT—A most brilliant color. An intensely rich and dazzling orange scarlet, large size and perfect form.

Pink HAWLMARK—The color is a rose-pink, flushed and shaded, with salmon.

MARGARET ATLEE IMPROVED—A rich glowing pink on cream ground, softly suffused with salmon in the standard.

Purple ROYAL PURPLE—The color is a rich, royal purple, the younger flowers having a slightly softer color tone.

Salmon BARBARA—A superb salmon-colored self that makes a telling bunch either for exhibition or table decoration.

Scarlet CAMP FIRE—A very bright scarlet, sunproof. It is said the flowers will stand the hottest sun.

FIERY CROSS—Bright scarlet, which glitters in the bright sunlight with a glowing radiant fire-like sheen.

White WHITE SPENCER—One of the purest and best white.

KING WHITE—Remarkable for the glistening purity of the whiteness and the perfect finish of the flower.

SPECIAL SELECTION

The following 6 varieties of specially selected Spencer Sweet Peas: Pkt., 15c; 6 for 75c; oz., 40c; 2 oz., 75c; ¼ lb., \$1.25; ½ lb., \$2.25; lb., \$4.00.

Glitters The standard is a bright, fiery orange, and the wings are deep orange. The enormous flowers are of substantial texture, and hold up well after cutting.

Fluffy Ruffles The blooms are duplexed and frilled. They are long-stemmed, bearing a profusion of well-proportioned sprays of four. A lovely rich rose-pink.

Silver BLUE—The large flowers borne three or four to a spray are a pleasing, delicate shade of lavender blue. Stems are long and sturdy.

Ruffled Beauty The color is a clear shade of lilac-pink over an amber ground—rich enough to attract the eye, yet soft enough to be admired for its delicate beauty.

Snowstorm Improved The flowers are of immense size, well waved, and of artistic proportions. The texture is thick and substantial. A pure white.

Ruffled Rose An elegant new rose-colored variety introduced by Burpee in 1929.

These six varieties are not supplied in a mixture.

PERENNIAL SWEET PEAS

Easily grown, hardy with smaller flowers and lacking the fragrance of Sweet Peas, but producing a succession of blossoms in clusters of eight to ten each. Only a few flowers can be expected the first season. The plants die down late in the fall and start again in the spring. Mixed, pkt., 10c; ½ oz., 45c; oz., 75c.

VINES FROM SEEDS

Balloon Vine (Love-in-a-Puff) (A) — A rapid growing annual climber; succeeds best in light soil and warm situation; flowers white, seed vessels like miniature balloons. Pkt., 5c; ½ oz., 25c; oz., 40c.

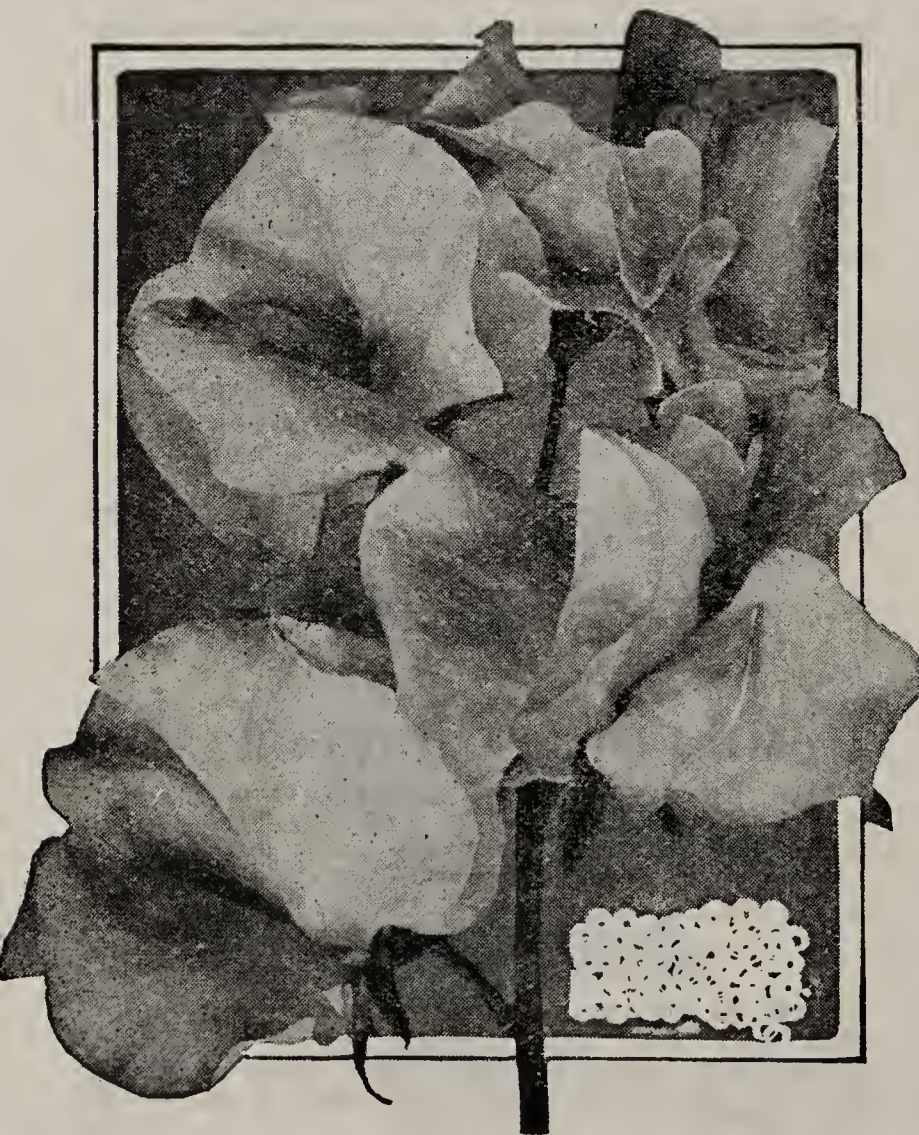
Balsam Pear (A) — A rapid grower, attaining 10 feet in height. Yellow flowers and warted, golden yellow fruit. Pkt., 10c; ½ oz., 30c; oz., 50c.

Beans Scarlet Runners (A)—A great favorite not only as an ornamental climber but for the delicious edible beans which succeed the bright scarlet sprays of pea-shaped blossoms. Pkt., 5c and 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 30c; lb., 50c.

Bean Hyacinth (Australian Pea Vine) (Dolichos) (A) — This really beautiful climbing plant is of quick growth; foliage is handsome and the clustered spikes of beautiful purple and white flowers are borne in great profusion. Mixed, pkt., 5c; ½ oz., 20c; oz., 30c.

Boston or Japanese Ivy (Ampelopsis Veitchii) (P) — A rapid creeper with lovely green foliage which turns red in fall. Excellent for covering walls, outhouses, etc. Height, 50 feet. Pkt., 10c; ½ oz., 30c; oz., 50c.

Canary Bird Vine (A) — A beautiful climber; flowers a bright golden yellow, bearing a fanciful resemblance to birds with expanded wings. Pkt., 10c; ½ oz., 30c; oz., 50c.



Cardinal Climber Attains a height of 15 feet. The leaves resemble those of a fine Japanese maple. The bright scarlet flowers are not large but grow in such profusion as to completely cover the vines. Pkt., 15c; ½ oz., 85c; oz., \$1.25.

Climbers (A)—This assortment of Climbers consists of from ten to fifteen varieties and will be found to be intensely interesting and beautiful. Pkt., 10c; oz., 30c; 2 oz., 50c; ¼ lb., 90c.

Cypress Vine or Ipomea Quamoclit (A)—A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers. Mixed, pkt., 10c; ½ oz., 25c; oz., 40c.

Cobea Scandens (A) It climbs 30 feet in a season. The flowers are bell-shaped. Very prolific and perfectly hardy. The vine is always clean of insects. Mixed, pkt., 10c; ½ oz., 60c; oz., \$1.00.

Gourd (Cucurbita) (A)—The vines are of easy culture and make a rapid growth, so are much used for covering old fences, trellises, stumps, etc. The foliage is ornamental. Do not plant the seed till danger of frost is over, and select light, rich soil and a sunny situation. Water freely. Ten to twenty feet high. Mixed, pkt., 5c; ½ oz., 25c; oz., 40c.

Japanese Kudzu Vine (P) — The blossoms are large and in panicles somewhat like the Wistaria, but larger in size. Color is a pleasing shade of purple. Foliage luxuriant. The vine is extremely rapid and dense in growth, perfectly hardy. Pkt., 10c; ½ oz., 50c; oz., 75c.

Japanese Hop (Humulus) (A)—A charming climber, attaining a growth of 20 to 25 feet in a few weeks. The leaves (6 to 7 inches across) are beautifully marked and variegated with white yellowish green. Pkt., 10c; ½ oz., 30c; oz., 50c.

Moon Flower or Ipomea, Mexicana Grandiflora (A) — Rapid growing climber, belonging to the Morning Glory family. The flowers are large, waxy white and very showy. Pkt., 10c; ½ oz., 40c; oz., 75c.

MORNING GLORIES

MORNING GLORY (A) (Convolvulus Major Ipomea Purpurea)—Tall, fine mixed, a great variety of colors of the popular old-fashioned sorts. Pkt., 5c; ½ oz., 15c; oz., 25c; 2 oz., 40c; ¼ lb., 70c.

GIANT JAPANESE FRINGED (Imperials) (A)—The flowers of this variety are often three inches or more across, and come in a great variety of colors. The foliage in some plants comes plain green, in others it is mottled with white and shades of yellow. Pkt., 10c; ½ oz., 25c; oz., 40c; 2 oz., 70c; ¼ lb., \$1.25.

SMILAX (P)—Charming, tender, climber for greenhouse or window gardens. The foliage and stems are of a pleasing light green; very graceful; excellent for decoration. Pkt., 10c.

WILD CUCUMBER (A)—A quick growing vine. It will re-seed itself. Thickly dotted over with pretty white fragrant flowers, which are followed by an abundance of ornamental prickly seed pods. Pkt., 5c; ½ oz., 20c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.50; lb., \$2.50.

VINES FROM ROOTS

CINNAMON VINE—The stem dies every autumn, but grows very rapidly as soon as spring approaches. With its beautiful heart-shaped leaves and clusters of delicate white flowers, and most delicious cinnamon odor, is most desirable climber. Each, 15c; 2 for 30c; ½ doz., 75c. Postpaid, doz., \$1.25.

HOPS—Are the most rapid growers of any vine coming from the roots each spring. Their rapid growth and large broad leaves cover a porch before the arrival of the hot days of the summer. Postpaid, each 10c; ½ doz., 50c; doz., 75c; 50, \$3.00; 100, \$5.00.

Bulbs

CANNAS

AMERICAN RED CROSS—Cardinal-scarlet. Foliage green with narrow edge of purple. Four feet.

EUREKA—The best white; the large substantial flowers are produced very freely. 4½ feet.

CHEERFULNESS—Its beautiful bright fire-red or deep orange flowers appear early and continue without interruption until frost.

HUNGARIA—An ideal pink bedder, flowers large in good sized trusses produced very freely, color a beautiful clear rose. 3½ feet.

KING HUMBERT—The most popular of all Cannas. Great orange-scarlet flowers surmount beautiful vigorous deep bronze foliage. 5 feet.

MRS. ALFRED CONARD—One of the most popular varieties grown, one of the most effective. Very large salmon-pink. 4 feet.

ORANGE BEDDER—This is a particularly useful and attractive bedding variety, of a bright orange with just enough scarlet suffusion to intensify the dazzling mass of color.

PANAMA—The color of this splendid Canna is unusual, being an attractive rich orange-red with a well-defined edge of bright golden yellow. The flowers are very large, the petals being almost round. Early. Three feet.

RICHARD WALLACE—Large canary yellow flowers, a well known popular variety. 4 feet.

THE PRESIDENT—A gorgeous variety producing great trusses of bright red flowers in great profusion.

WINTZER'S COLOSSAL—Five feet. Without doubt the largest-flowered Canna to date, as the average flowers almost cover a man's hat. The color is a strikingly vivid scarlet that retains its brilliancy.

YELLOW KING HUMBERT—A sport from the bronze leaved red flowering King Humbert. Flowers are yellow dotted orange-scarlet. The occasional reversion of a stalk of foliage and flowers to the typical King Humbert makes a bed of this variety very interesting. 4½ feet.

All Camas, each, 20c; ½ doz., \$1.00; doz., \$1.75.

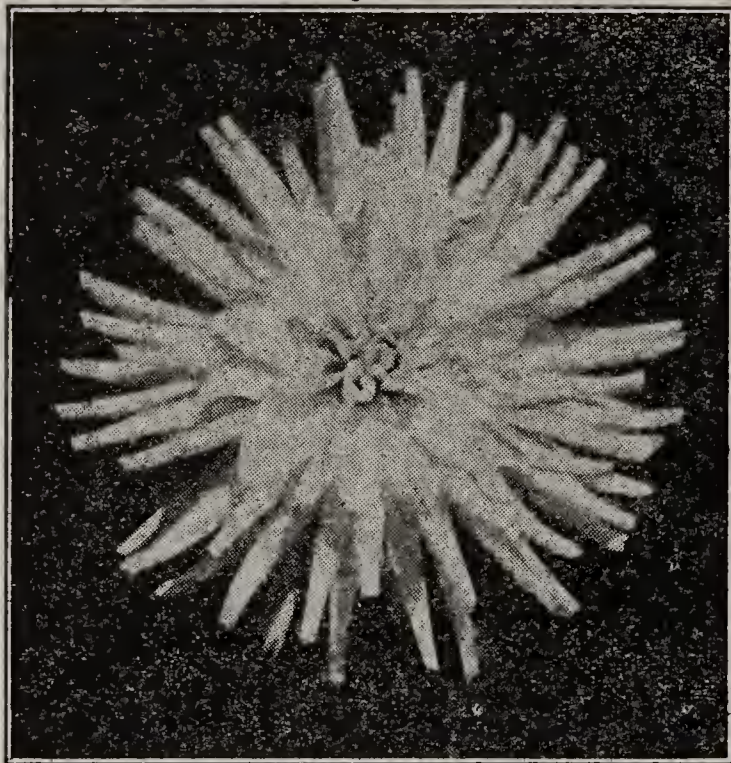
DAHLIAS

The Dahlia is one of the showiest of all autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until frost.

Aster Super Giant Los Angeles,
Page 1.

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CACTUS



This type is particularly valued on account of the fact that the flowers will keep in good condition longer after cutting than those of any other type.

Orange **BALLET GIRL**—Bright orange.

F. W. FELLOWS—Flowers very large with long, narrow petals. Bright orange-scarlet.

Red **GUARDIAN**—A luminous, attractive, brilliant red.

White **SAMARITAN**—Pure white.

Yellow **GOLDEN WEST**—Large flowers. Deep rich yellow.

AMBASSADOR—A soft yellow with salmon and pink shadings. Flowers very large. Good bloomer.

All Cactus Dahlias, 45c each.

DECORATIVE

The Decorative Dahlias are an intermediate form between the Show and Cactus types. Many beautiful varieties have been introduced, some with flat petals, others reflexed, incurved or curiously twisted; but nearly all are without formality or stiffness, bearing their large perfectly formed blooms on long, stiff stems.

Orange **AMUN RAY**—Flowers of immense size. Coppery orange.

Maroon **FORT MONMOUTH**—Rich, handsome deep maroon, shaded violet at tip of each petal.

Pink **JERSEY BEAUTY**—A pure pink. Large flowers. Long, stiff stems. Each, 35c.

SYLVIA—Soft, pleasing, mauve-pink, changing to white in center, a fine cut flower. Each, 35c.

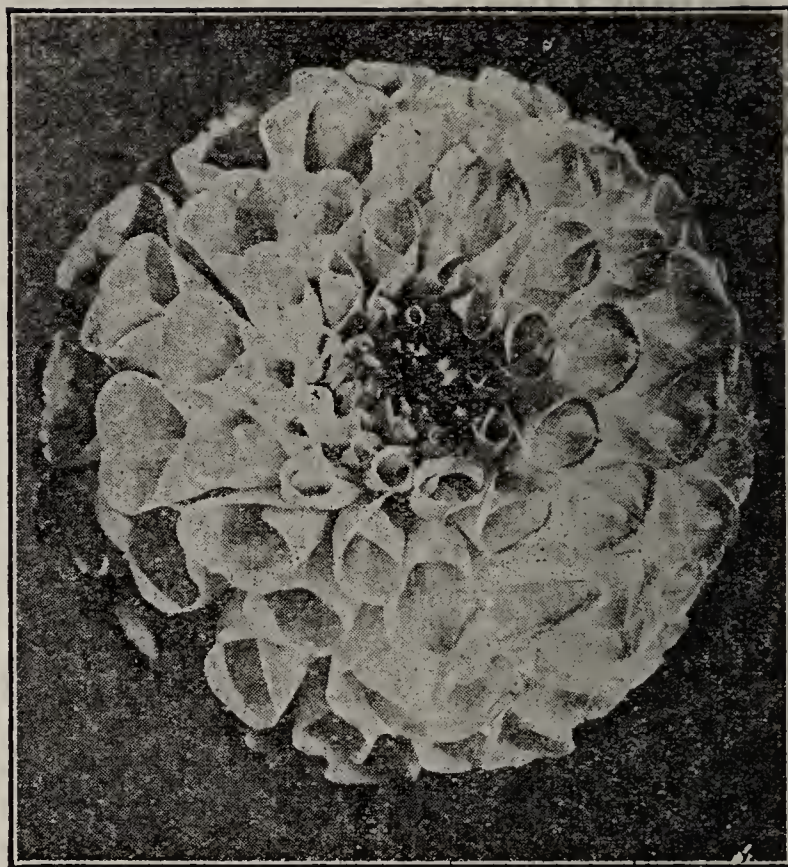
Scarlet **JERSEY'S BEACON**—Large flowers globular in form. Prolific bloomer. Chinese scarlet.

Red **ROBERT TREAT**—American Beauty, rose color. Each, 50c.

PRIDE OF CALIFORNIA—Best deep red.

ELITE GLORY—Large blooms, brilliant red.

Rose **YANKEE KING**—A beautiful coppery-rose blooms, showing a suffusion of old gold.



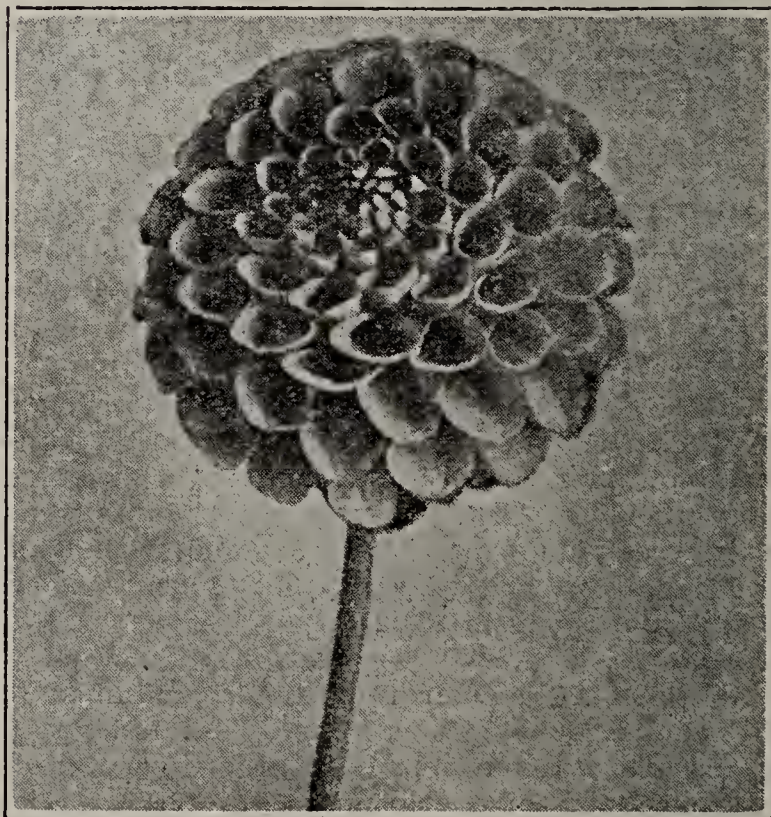
White **CHEMAIS EUREKA**—Large white flowers, with center beautifully lavender tinted. Each, 50c.

Yellow **AVALON**—Pure clear yellow. Flowers full to center and produced abundantly.

PATRICK O'MARA—The color is an unusually soft and pleasing shade.

All decorative dahlias, 45c. unless otherwise quoted.

POMPON



Pompon

The plants grow into neat little bushes which are covered with small, perfectly ball-shaped Dahlias, measuring up to 2 inches in diameter. The flowers are always double to the very center and in many varieties the petals are curled.

Bronze Beauty—Beautiful bronze as its name implies.

Aimee—Salmon shaded bluff.

Dee Dee—A lovely lavender.

Guiding Star—The very best white.

Little Jennie—Primrose yellow.

Little Sweetheart—Red tipped with white.

Each of above, 35c; or any six, \$2.00.

SHOW



Show Dahlia

Show Dahlias are usually of solid color, but in certain varieties the tips of the petals may be of another. They are usually round, ball-shaped, and are always beautiful and compact.

Bonnie Blue Deep solid pink.
Each, 45c.

Clara Seaton Light yellow.
Each, 45c.

Gladiolus

Gladiolus are the most satisfactory, desirable and popular of all the garden bulbs. Nothing else of the kind costs so little, grows and blooms so readily in any soil or climate as Gladiolus. They thrive and bloom with the least care and attention, and make a display which for brilliancy and beauty of coloring few bulbs can equal and none surpass. Plant any time from March to June.



Blue

BARON HULOT—Long, graceful spikes, of good-sized, well-opened flowers, having a rich indigo-blue color. Very unique and beautiful shade, and never fails to attract attention.

Each, 10c; 1/2 doz., 60c; doz., \$1.00.

Lavender

BYRON L. SMITH—Delicate lavender, deepest at the edges of the petals and shading toward white in the center; gives the impression of an orchid. Well arranged on good stem. Each, 10c; 1/2 doz., 50c; doz., 90c.

Orange

ORANGE QUEEN—A very warm tint; large, open flowers on good stem; justly considered one of the very choicest novelties in Prim. Hybrids. 3 for 25c; 1/2 doz., 45c; doz., 80c.

ALICE TIPLADY—Bright saffron-orange; large, open flowers on strong, stiff stem; excellent cutflower and forcer. Each, 5c; 1/2 doz., 30c; doz., 50c.

Pink

AMERICA—Delicate lavender pink, large flowers, borne on strong stems well placed. A very popular variety as a cut flower. 4 for 25c; 1/2 doz., 35c; doz., 60c.

LE MARECHAL FOCH—An early-flowering strong-growing variety with deep rose-pink flowers. Long spikes. Each, 5c; 1/2 doz., 30c; doz., 50c.

Salmon

MAIDENBLUSH—Superb light pink; flowers well placed on tall, slender stem; oftentimes producing two and three spikes to the bulb. Each, 5c; 1/2 doz., 30c; doz., 50c.

Red

FLAMING SWORD—Brilliant red, slightly overlaid with orange. Tall straight spikes with ten or more flowers open at a time. 4 for 25c; 1/2 doz., 35c; doz., 60c.

MRS. FRANCIS KING—Color is a very pleasant light scarlet, strikingly attractive. Separate flowers often measure 4 to 5 inches across and 5 to 6 flowers are open at one time. Each, 5c; 1/2 doz., 30c; doz., 50c.

Spotted

HALLEY—The color is a delicate salmon-pink with a slight roseate tinge, though the lower petals bear a creamy blotch with a stripe of bright red through the center. Each, 5c; 1/2 doz., 30c; doz., 50c.

MRS. FRANK PENDLETON—The flowers are very large and well-expanded, of a lovely flushed salmon-pink with brilliant carmine, or deep blood-red blotches in the throat. 4 for 25c; 1/2 doz., 35c; doz., 60c.

4 for 25c; 1/2 doz., 35c; doz., 60c.

White

LILY WHITE—A fine snow white variety. Good height and good sized blossoms. Six or seven blooms open at a time.

4 for 25c; 1/2 doz., 35c; doz., 60c.

PEACE—Flowers are large, of good form, correctly placed on a heavy, straight spike. Beautiful white, with pale lilac feathering on interior petals. 4 for 25c; 1/2 doz., 35c; doz., 60c.

Yellow

NIAGARA—Giant Yellow. In color the flowers are of a delightful cream shade with the two lower inside petals or segments blending to canary-yellow. The throat is splashed and tinted with carmine. The flower spike is very erect and stout and is wrapped with broad dark-green foliage. 4 for 25c; 1/2 doz., 35c; doz., 60c.

SCHWABEN—A very vigorous grower, also very free flowering. A clear canary yellow shading to sulphury yellow when open.
4 for 25c; 1/2 doz., 35c; doz., 60c.

All 50c varieties.....	50,	\$1.75;	100,	\$3.00
All 60c varieties.....	50,	2.00;	100,	3.50
All 80c varieties.....	50,	2.50;	100,	4.50
All 90c varieties.....	50,	2.75;	100,	5.00
All \$1.00 varieties.....	50,	3.50;	100,	6.00

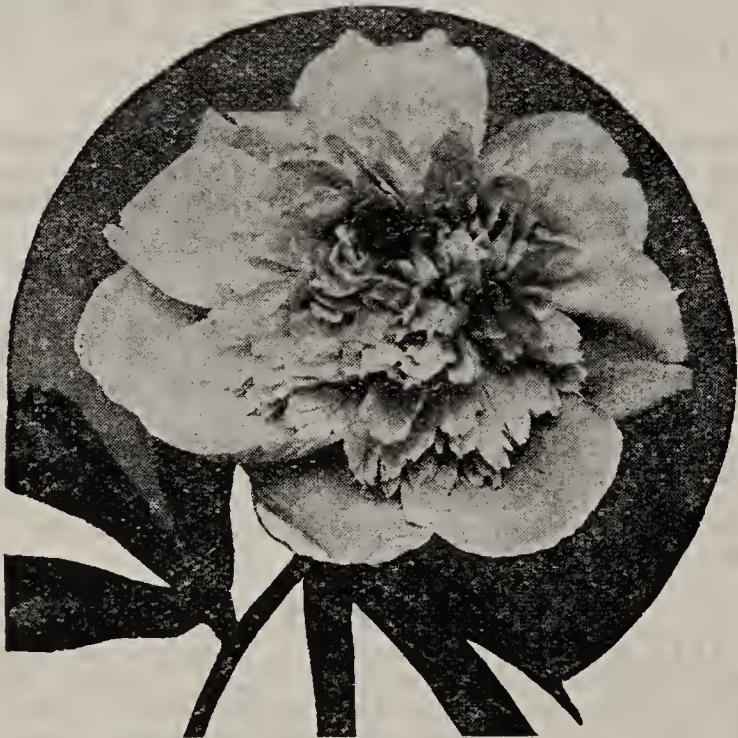
Exhibition Mixture

Each, 5c; 1/2 doz., 25c; doz., 45c; 50, \$1.50; 100, \$2.50.

LILY OF THE VALLEY—One of the most satisfactory and charming spring flowering plants producing in profusion its delicate bell-shaped delightfully fragrant white flowers. Lillies of the Valley thrive in any common soil, are perfectly hardy, and will succeed in shady situation. Each, 5c; 25, \$1.25; 50, \$2.25; 100, \$4.00.



Peonies



Peony

We have also marked the varieties as to the time of flowering; following explains the letters used: V. E. means very early, E.—Early, M.—Midseason, L. M.—Late Midseason, L.—Late.

ALEXANDER DUMAS—Medium size, light violet rose, creamy white collar of narrower petals, mingled with wide center petals. E 7.1. Each, 60c.

COURBONNE D'OR—Large, flat, semi-rose type. Pure white with ring of yellow stamens around a tuft of center petals tipped carmine. L 8.1. Each, 50c.

DORCHESTER—Large compact rose type, pale hydrangea pink, sulphur white collar. L 7.7. Each, 65c.

EDULIS SUPERBA—Large loose flat crown. Bright mauve-pink. Crown type. V E 7.6. Each, 60c.

EUGENIE VERDIER—Large, medium, compact, flat, semi-rose type. Pale hydrangea-pink. Collar lighter, center deeper, flecked crimson. E 8.6. Each, 65c.

FELIX CROUSE—Rose type, brilliant ruby red, one of the best and most popular kinds for cut flowers, M 8.4. Each, 75c.

FESTIVA MAXIMA—Very large globular rose type. Pure white center, prominently flecked crimson; outer petals sometimes faint lilac. E 9.3. Each, 50c.

L'INDISPENSABLE—Globular rose type, lilac white shading to pale violet rose toward center. L M 7.3. Each, 75c.

MARGUERITE GERARD — Large compact, semi-rose developing into a crown with stamens. Very pale hydrangea pink, fading to nearly white. Central petal flecked dark carmine. L 8.4. Each, 60c.

MME. CALOT — Large rose type. Pale hydrangea pink center shading darker. Collar tinged silver. V E 8.1. Each, 60c.

Special prices, postpaid, in straight or assorted lots:

	1/2 Doz.	Doz.
All 50c Paeonies.....	\$2.25	\$4.00
All 60c Paeonies.....	2.75	5.00
All 65c Paeonies.....	3.00	5.50
All 75c Paeonies.....	3.50	6.50

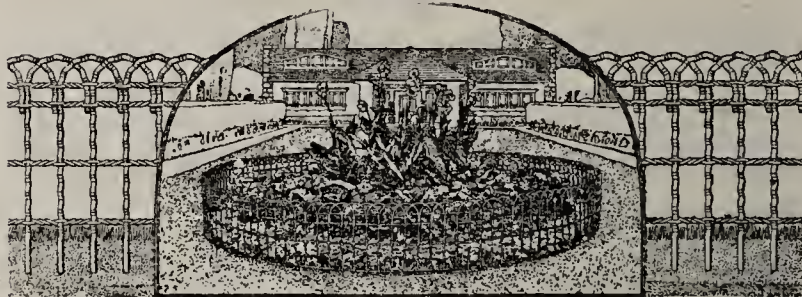
Mixed Colors

These mixed colors are not mixed and sold cheap because of small roots or inferior blooms but because names and colors have been misplaced. Very highly recommended.
Each, 35c 1/2 doz., \$1.90; doz., \$3.50.

Tritoma, or "Red-Hot Poker"

TRITOMA PFITZERI—Grows from four to six feet high; the flower-spike is often five feet high, and the flower measures twelve to fifteen inches long by four inches in diameter. They are a dazzling scarlet, lower half of flower tinged with rich orange. A clump makes a striking show. Each, 40c; 1/2 doz., \$2.25; doz., \$4.25.

Flower-Bed Border



Pickets of galvanized wire spaced 3 inches apart. Cables of galvanized wire spaced 6 inches apart, except two top cables which are spaced 2 3/8 inches apart.

Height, inches from top to bottom of pickets	List Price Per Lineal Foot
16 in. to extend 12 in. above grade.....	\$0.08
22 in. to extend 18 in. above grade.....	.10

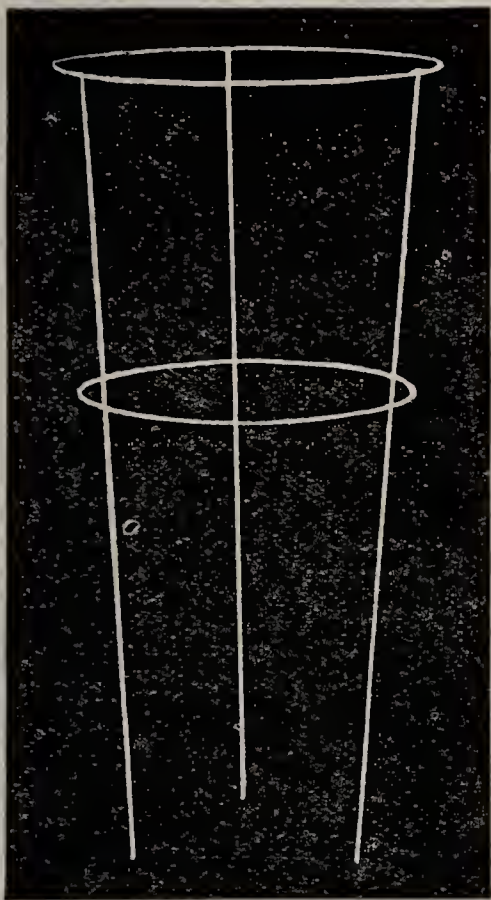


National
Eezy Wear
Garden Gloves

A soft—pliable — all-leather— dirt proof glove for both men and women. The unusual quality of extreme softness and piability is combined in this all-leather glove. Two sizes. Per pair, 75c, postpaid.

Bamboo Canes
PAINTED GREEN

Height	Quantity				
	1/2 Doz.	Doz.	25	50	100
3 feet	\$0.15	\$0.25	\$0.40	\$0.65	\$1.00
4 feet .....	.20	.30	.50	.75	1.25
6 feet bamboo poles					
1x1 1/4 in. not painted....	1.25	2.50	4.75	9.25	



Peony and Plant Supports

Are made of strong galvanized wire. Very strong and durable and can be used to advantage with a great number of different kinds of plants and flowers.

Price of Plant Supports

No.	Wire Gauge	Diameter Top Ring	Diameter Lower Ring	Length Side Wires	Weight Each
1.....	No. 6	14	12	30 in.	1½ lbs.
2.....	No. 6	18	16	30 in.	2½ lbs.
3.....	No. 3	24	16	36 in.	3½ lbs.

No.	Each	½ Doz.	Doz.	25	50	100	Weight Each
No. 1.....	\$0.35	\$2.00	\$3.90	\$7.50	\$14.00	\$27.50	1½ lbs.
No. 2.....	.45	2.55	4.80	9.25	18.00	35.00	2½ lbs.
No. 3.....	.75	4.25	8.25	16.00	31.00	60.00	3½ lbs.

Add postage.

Plant Props

Are desirable for supporting all kinds of flowers and vegetables that need support, such as tomatoes, dahlias, etc. They are made of 6-gauge galvanized wire, will not rust, and eliminate the yearly chore of hunting wood sticks. They have a loop at the top which is electric welded and prevents all string from slipping out of loop. There are four grooves at even intervals on the prop to tie the plant, according to its height.

Price of Plant Props

No.	Height	Wire Gauge	Each	½ Doz.	Doz.	25	50	100	Weight Doz.
4.....	36 in.	No. 6	\$0.10	\$0.60	\$1.10	\$2.00	\$3.75	\$7.00	4 lbs.
5.....	48 in.	No. 3	.20	1.20	2.25	4.00	7.50	14.00	9 lbs.
6.....	60 in.	No. 3	.25	1.50	2.75	5.00	9.50	17.50	11 lbs.

Add postage.

Plants and Roots

(NO PLANTS OR ROOTS SENT C. O. D.)

Plants—Flowering—Perennials and Annuals

Prices			Prices		
Variety	Postpaid	Postpaid	Variety	Postpaid	Postpaid
	Doz.	100		Doz.	100
Alyssum	\$0.35	\$3.50	Marigold	\$0.35	\$3.50
Asters .....	.35	3.50	Mignonette .....	.35	3.50
Carnations .....	.35	3.50	Pansies .....	.75	5.50
Cosmos .....	.35	3.50	Petunia .....	.35	3.50
Daisies .....	.35	3.50	Salvia .....	.35	3.50
Dahlias .....	.35	3.50	Snapdragons .....	.35	3.50
Dusty Miller .....	.35	3.50	Stocks .....	.35	3.50
Geraniums, 3-in. pots.....	.40 each	4.50 doz.	Verbenas .....	.35	3.50
Heliotropes .....	.35	3.50	Wallflowers .....	.35	3.50
Lobelia .....	.35	3.50	Zinnias .....	.40	4.50

Onion Plants

Onion plants are being extensively used in some districts for producing large early matured onions, as matured onions can be secured from plants much sooner than from seed. The plants are good keepers so that there is little or no danger of them not growing. Besides, they are one of the easiest plants to grow. It is recommended to plant the rows sixteen inches apart and the plants three to four inches apart in the rows. If planted in this manner it will take about 100,000 to the acre. Do not plant too deep. Plants are put up in bundles of about



Bermudas and Sweet Spanish, Reduced Prices

100 and sixty bundles to a crate. Count not guaranteed.

We are growing quite an acreage in the Northwest and quotations made are on these plants. In case of excessive winter killing, when we might be compelled to secure some plants in Texas, price would be higher.

Prices, Postpaid

2 bundles	\$0.45
3 bundles .....	.60
6 bundles	1.00
10 bundles	1.50
Crate 60 bundles.....	6.00

Crate weighs about 30 lbs.
Add postage to crate price.
Not less than two bundles sold.

Plants—Vegetables

Please note that the quotations made on non-transplanted plants are for out-door grown plants, hence price does not apply to plants started and grown in hot beds or under glass. Outdoor grown plants are usually ready about May 15.

Variety	POSTPAID			NOT POSTPAID	
	Doz.	50	100	500	1000
Brussels Sprouts	\$0.20	\$0.60	\$1.00	\$	\$
CABBAGE—					
Early Jersey Wakefield, transplanted.....	.25	.75	1.00	3.75	7.00
Early Jersey Wakefield, not transplanted.....	.20	.50	.75	2.00	3.50
Danish Ball Head, not transplanted.....	.20	.50	.75	2.00	3.50
Red, not transplanted .....	.20	.50	.75	.....	.....
Copenhagen Market, not transplanted .....	.20	.50	.75	2.00	3.50
CAULIFLOWER—					
Snowball, transplanted .....	.30	1.00	1.25	.....	.....
Snowball, not transplanted .....	.25	.75	1.00	3.00	5.00
CELERY—					
White Plume, transplanted .....	.25	.75	1.25	3.25	6.00
White Plume, not transplanted .....	.20	.65	1.00	2.75	5.00
Golden Self-Blanching, transplanted .....	.25	.75	1.25	3.25	6.00
Golden, Self-Blanching, not transplanted .....	.20	.65	1.00	2.75	5.00
Celeriac .....	.25	.75	1.25	.....	.....
Egg Plant .....	.30	.75	1.25	3.75	7.00
Parsley .....	.25	1.00	1.25	.....	.....
PEPPERS—Transplanted—					
Chinese Giant .....	.30	.75	1.00	3.00	5.50
Ruby King, transplanted .....	.30	.75	1.00	3.00	5.50
Bull Nose, transplanted .....	.30	.75	1.00	3.00	5.50
Cayenne, transplanted .....	.30	.75	1.00	3.00	5.50
Cherry, transplanted .....	.30	.75	1.00	3.00	5.50
TOMATOES—					
Earliana, transplanted .....	.30	.75	1.25	4.50	8.00
Bonny Best, transplanted .....	.30	.75	1.25	4.50	8.00
Husk or Ground Cherry, transplanted.....	.30	.75	1.25	.....	.....

Roots

Variety					
ASPARAGUS—					
Palmetto, 1 year old	\$0.25	\$0.75	\$1.00	\$3.25	\$6.00
Palmetto, 2 years old .....	.40	.85	1.50	5.25	10.00
Palmetto, 3 years old .....	.50	1.50	2.25	7.75	15.00
Hop .....	.75	2.75	5.00	7.75	15.00
Horseradish .....	.30	1.00	1.50	4.25	8.00
Mint .....	.75	2.50	4.00	.....	.....

	POSTPAID			NOT POSTPAID	
	Each	Doz.	50	100	500
Chives, small bunch	\$0.15	\$1.25	\$	\$	\$
Rhubarb, 1 year old .....	.15	1.25	3.25	5.00	15.00
Rhubarb, 2 years old .....	.25	1.75	4.50	8.00	30.00

PRICES NOT GUARANTEED, BUT ARE SUBJECT TO CHANGE

Strawberries

Strawberry Suggestions

Strawberries may be successfully grown on most soils provided fertility and the moisture supply are adequate. A well-drained, fertile, sandy loam that is retentive of moisture is ideal for most varieties. On sandy soil it may be necessary to irrigate in order to provide sufficient moisture during dry season. On the other hand, strawberries should not be planted on heavy clay soils unless they are well drained. In order to provide good growing conditions it is essential that the ground be well prepared by

fairly deep plowing, thorough pulverizing and putting the soil in a seedbed condition. Two systems of planting are adopted; namely Matted Rows and Hills. Where the matted row is used it is advisable not to allow the rows to become too wide as it is well known that the outside of the rows produce the largest berries. Consequently in a wide row there will be a larger proportion of small berries. While some prefer the hill system it is mostly used with varieties which produce few runners. In this system the rows are set 2 to 3 feet apart and the plants 1½ to 2 feet apart in the row. Do not plant small, weak plants. In planting, the upper tip of the crown should just reach above the surface of the ground, and the roots should not be

doubled up, but should be spread out in a fan shape so that all the roots would come in direct contact with the soil.



MASTODON

Greatest Everbearing Strawberry
MASTODON is rightly named and without doubt is the largest and best everbearing straw-

berry. It is a very mastodon in the size of its big, red, luscious berries. Their glossy red color and bright yellow seeds give them a beautiful appearance, and their firm flesh and tough skin make them an excellent shipper.

PROGRESSIVE—As a home garden berry the Progressive fills the bill. The Progressive is a persistent bearer from the time plants are set in the spring until hard freezing.

One Crop Varieties

GLEN MARY—A bright, handsome, prolific, standard sort, and perfectly reliable.

HOOD RIVER—The leading standard shipping variety. Dark red color, uniform size, good quality, but not heavy in yield.

MARSHALL — Produces remarkably large, beautiful fruit, resembling the Glen Mary.

OREGON—A fadeless, dark red exterior; the deep red color is extended clear to the center of the fruit. Exceptionally fine for canning. Any variety that we offer will fertilize it except Aroma.

SENATOR DUNLAP—Its color is a rich dark red, with glossy finish. It has become a very popular variety, perhaps on account of its uniformity.

		PREPAID			
		Doz.	25	50	100
Mastadon	\$0.50	\$0.85	\$1.25	\$2.00	
Progressive .....	.50	.75	1.25	1.75	
All Other Berries.....	.40	.50	.75	1.25	

		NOT PREPAID			
		200	500	1000	
Mastadon	\$3.25	\$6.00	\$12.00		
Progressive	2.50	4.00	8.00		
All Other Berries.....	1.75	3.50	7.00		



Hotkaps

Hotkaps are miniature hothouses, manufactured from wax paper, under which the seed of melons, tomatoes, peppers, etc., can be planted, thereby saving the cost of labor of transplanting. Young plants under **HOTKAPS** are protected from frost and insects and will mature more quickly than those transplanted.

1000	\$1.00 per 100
Less than 1000.....	1.10 per 100
Less than 500.....	1.25 per 100
Less than 100.....	.20 per doz.
Lots of 5000.....	9.85 per 1000
Lots of 10,000.....	9.75 per 1000

Thousand weigh 28 lbs. Add postage.

We have also Hotkaps in small packages containing 250 and 100, which includes garden setter with tamper. Price, \$3.75 and \$2.50. Weight, 10 and 6 lbs. Add postage.

HOTKAP SETTERS

In placing the "Hotkaps" over the plants, the "Hotkap Setter" will prove very helpful. This is a small steel cone, the exact shape of the "Hotkap" itself, with a handle at the top.

Weight, 3 lbs. Add postage. Price, \$2.25.

HOTKAP CARRIERS

To make it easier to set them out in quantities, a specially made carrier, holding approximately 150 "Hotkaps," will be found very convenient. Price, \$2.00. Postpaid, \$2.15.

Wee Hot Houses**Wee Hot Houses**

Used in the same manner as Hotkaps. Notice their different shape. When we took over the Spokane Seed Co.'s stock there was a small lot of these which we are offering at the following low prices as long as they last:

1000	\$0.60 per 100
Less than 1000 .....	.75 per 100
Less than 500 .....	.90 per 100
Less than 100 .....	.15 per doz.

Thousand weigh 25 lbs. Add postage.

Plant Pots

Plant pots and plant bands are made exactly of the same material, the only difference being that bands have not any bottom while pots have. You will also notice difference in size. 3x3 inches.

Case 2,000	\$12.00 per case
Less than case .....	.70 per 100
Less than 1000 .....	.80 per 100
Less than 500 .....	.90 per 100
Less than 250 .....	.15 per doz.

Packed 250 in carton.

Weight of 250, 5½ lbs. Add postage.

Plant Bands

They come already folded and set up. All you have to do is open them, set them in a box close together, and fill with dirt, and put in the plant. The simplest way to handle plants for transplanting is to grow them in our Ready-to-Use Plant Bands. They make an ideal worm guard. Size 2x2 inches.

Case 5,000	\$16.00 per case
Less than case .....	.40 per 100
Less than 1000 .....	.50 per 100
Less than 500 .....	.60 per 100
Less than 250 .....	.10 per doz.

Packed 250 in carton.

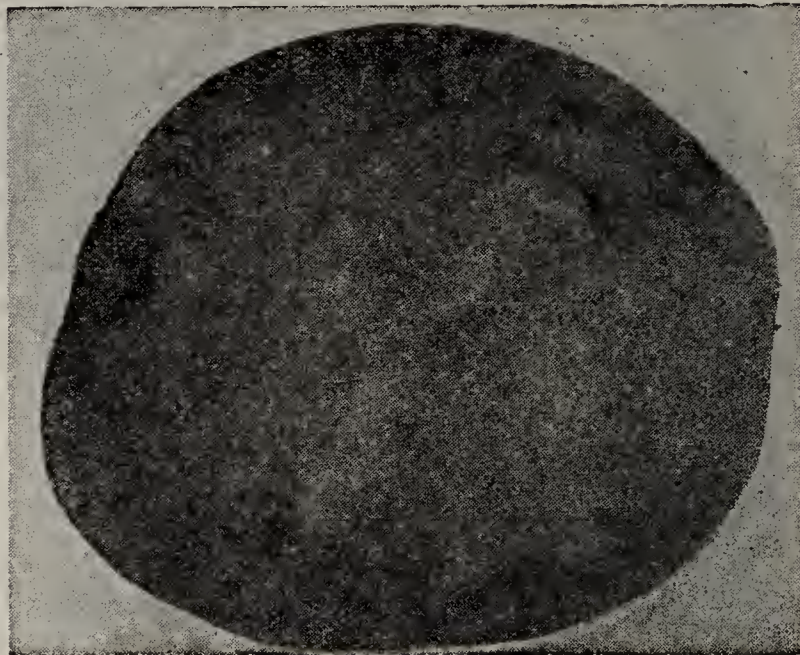
Weight of 250, 2¼ lbs. Add postage.

Potatoes

Potatoes can be grown in any soil provided it is well drained, but if grown on sandy, rich soil, they will be of better quality than if planted on clay soils. Sod land is most excellent for this crop.

PRICES—Owing to the great uncertainty regarding values we are unable to make definite prices at present.

Write for prices, stating amount wanted.



Bliss Triumph or Six Weeks

Early

BLISS TRIUMPH OR SIX WEEKS—This is recognized as being one of the very earliest varieties grown, and is also one of the best yielders of the early varieties. Skin pink.

OHIO—A leading early sort. Round, short, and thick tubers, smooth and solid; cooks dry and mealy and matures very early.

EARLIEST OF ALL OR EARLY EUREKA—Is a shallow-eyed white-skinned variety of vigorous growth. The tubers are smoother and have fewer eyes than most other varieties.

Medium

IRISH COBBLER — The tubers are round, somewhat flattened with rather deep eyes and are medium to large in size. The skin is white.

Late

NETTED GEM—The hardiest, most vigorous in growth, most productive, and the best in table quality of all potatoes. It has proved to be unequalled for main crop. The vines are strong, with deep green foliage. In form the tubers are medium long.

Write for prices, stating amount wanted.

CERTIFIED STOCK

The present arrangement for certified potatoes in the states of Idaho and Washington are a blue tag and a red tag. The blue tag is certified as to variety, freedom of disease and type and has been inspected at least twice in the field, also inspected at time of shipment. Size, from 2 to 12 ounces.

Red tag has also been inspected but has not been as closely graded as the blue tag and will not conform to the requirements for the blue tag.

Write for prices, stating amount wanted.

Field Seeds

Write for Prices

We are unable to quote on field seeds as our catalog goes to the printer, but will be glad to quote upon request. Please state amount wanted.

The principle on which we have always conducted our business has been that the best field seeds obtainable are not only the best to sow but the most economical. Will be glad to forward samples and quote if you advise how much you are going to purchase.

Winter Killing of Alfalfa

Through a questionnaire sent to about twelve hundred alfalfa growers, the Washington State College has made an analysis of winter killing of alfalfa. Reports show that the main causes are a dry fall and low temperatures without snow covering. Practically all alfalfa which had irrigation or subirrigation through the fall have not been subject to much winter killing.

Grimm Alfalfa is recommended as being more hardy than common. In order to preserve the vigor of alfalfa plants, it is recommended to cut, on dry land, after one-third in bloom and to secure good growth after the last cutting. To attain this end some alfalfa growers cut only once.

Reports also state that Gypsum has increased the vigor of plants on some fields and saved them from winter killing. Some growers consider fall cultivation helps to control winter killing and is important in controlling cheat grass.

CLOVERS

ALFALFA, Common variety. Most generally sown. Prepare seed bed thoroughly. Permanent for years. Heavy yielder.

ALFALFA, Grimm—A hardier variety than the Common. Different root system. Not subject to winter killing.

ALSYKE—Produces large crops of excellent hay. Finer than Red Clover. Not so dusty. Stands drouth well.

LADINO—A tall growing kind of white clover which seems to be destined to become important as a pasture plant. It has yielded twice as much forage as blue grass and grows sufficiently tall to use for hay.

RED, Medium—Standard variety. Highly recommended for enriching the soil. Hardy, and yields well on any soil.

RED, Mammoth—Heavier yielder than the Medium. Matures later. Foliage, flower, and stem dark color.

SWEET, White Blossom—Erect branching biennial. Stems woody. Grows from five to eight feet high.

SWEET, Yellow Blossom—Same family as the White Blossom. Does not grow so high. Finer stem and earlier.

WHITE DUTCH—Low growing. White blossoms. Fragrant. Makes excellent pasture. Used largely for lawns.

GRASSES

BENT, Creeping—Fine texture. Valuable for lawns and golf courses. Rapid grower. Spreading habit. Permanent sod.

BLUE GRASS, English—Grows from three to four feet high. Deep rooted. Heavy yielder of superior hay. Makes good pasture.

BLUE GRASS, Kentucky—Very sweet and nutritious. Starts growth early in spring, re-

maining green until winter. Very hardy. Used for lawns.

BROMUS INERMUS—Introduced as a grass for dry sections. Withstands drouth well. Produces leaves abundantly.

CANARY GRASS—Known as water grass, as it delights in marshy places. Grows from six to seven feet high.

FESCUE, Chewing—Small, hardy low growing. Fine dark green leaves about six inches high forming a close turf.

FESCUE, Hard—Deep green in color. Grows to a height of one and one-half to two feet. Thrives in the shade.

FESCUE, Sheep—Known as a bunch grass and forms large tufts three to six inches in diameter. Somewhat woody.

ORCHARD GRASS—Stands the drouth. Grows well in the shade. Does well in wet or poor ground.

RED TOP—Valuable for moist rich soils where it grows very luxuriantly. Grows from one to two feet high.

RYE, English—Valuable for pasture, as it produces an abundance of foliage. Hay is fine and relished by stock.

RYE, Italian—Annual, quick grower. Attains a height of two and one-half to four feet. Does best on moist soil and cool climate.

SUDAN GRASS—Annual. Grows from seven to nine feet. Small stems about size of pencil lead. Wonderful stooler.

TIMOTHY—Best and longest of all grasses and most generally used. Height from two to three feet.

Crested Wheatgrass

The State College of Washington states that Crested Wheatgrass has been grown at the main station in Pullman, at the Adams Branch Station at Lind, and at Waterville branch at Waterville. It was tested at Waterville from 1920 to 1929, and at Lind since 1924. It has been part of the program at the main station at Pullman and at all locations it was tested for carrying capacity when used as pasture, hay production, and seed production. The results that have been obtained with Crested Wheatgrass insofar as the tests have gone lead the State College to say that there is no other perennial grass whose seed is as yet available in commercial quantities that will yield as much hay, seed, or pasture as Crested Wheatgrass, in those regions receiving a rainfall of between five and twelve inches where the soil is not described as "sandy." The State College states that their tests in regions of low rainfall lead them to believe that it can be seeded most successfully and economically in fall.

The following statement comes from Montana where it has been grown for a number of years:

A perennial bunch grass related to Blue Joint, a native of the cold, dry plains of Siberia. Under test at Havre and Moccasin since 1921 it has shown remarkable ability to thrive in the absence of normal rainfall. It has a strongly developed root system which penetrates the soil to twice the depth of Blue Joint which accounts for its winter hardiness and ability to thrive on a small amount of moisture. No other grass is as efficient in controlling weeds. It is palatable and nutritious. It outyields Brome and Slender Wheat Grass. It is from 5 to 14 days earlier than any other grass and continues growth until late in the fall. Sow from 10 to 15 lbs. per acre.

Slender Wheat or Western Rye Grass

Botanical Description—Western Rye Grass is a perennial with a short rootstock, not creeping. The stems and shoots are rather crowded and the plant grows in dense tufts. Stems and shoots are upright, the stems being from two to four feet high. The foliage is somewhat variable. The spikelets are always strongly appressed to the main stem, making the whole inflorescence narrow and slender—hence the name slender wheat grass.

Cultural and Soil Conditions—It grows naturally in dry soil and thrives best where water supply is limited. It does fairly well even on alkali ground, and the root being deep and strong, it is drought resistant and resistant to extreme cold. It is easy to grow, establishes itself the first year and gives its heaviest crop the third year.

Uses—It is one of the most valuable of western native hay grasses. Sow 20 lbs. per acre.

Tall Meadow Oat Grass

The earliest grass of all for either pasture or hay. Is especially adapted to our western country, being a quick grower. Has a deep rooting system, which enables it to withstand a long drouth, remaining green all seasons of the year. Cut during the blooming period for hay. Grows quickly after mowing, and will furnish a second cutting. Sow 25 or 30 pounds per acre.

Sudan Grass

South Dakota has recently completed some tests with Sudan grass for pasture. One acre pastured two cows for 60 days, or gave the equivalent of 130 days of pasture for one cow, comparing favorably with alfalfa and sweet clover.

Lespedeza

During the spring of 1933 we had a great many enquiries concerning Lespedeza. From what we knew about this, we were of the opinion that it would not prove a profitable crop for this northern latitude. We continued to make investigations and have just recently received from the State College of Washington, the following:

"Seed of *Lespedeza Sericea* was obtained in the spring of 1932 for experimental purposes. It was sown at the experiment station at Pullman, at the Irrigation Branch Station at Prosser, at the Western Washington Experiment Station at Puyallup, and at Woodland in southwestern Washington. At each point of trial poor growth was made and at none of these points did it give any promise.

"Annual forms of *Lespedeza* have been grown in the southern states for hay and pasture for more than half a century. They have never seriously contended for a place among forage crops in sections farther north. None of the forms of *Lespedeza* should be seriously considered where alfalfa or red clover is adapted. *Lespedeza* may be expected to be a useful crop primarily on the poor acid soils of the southeastern states."

In describing *Lespedeza* Dr. A. J. Pieters, head

of the Bureau of Plant Industry of the United States Department of Agriculture, says:

"*Lespedeza Sericea* is an erect plant with a few too many stems arising from a crown as in alfalfa and each main stem more or less branched. In broadcast seedings, especially where weeds are abundant, the plants may grow only 6 to 8 inches high the first season, and in that case each plant will consist of one slender unbranched shoot. Seeded in rows and cultivated the plants grow more vigorously and the single stem may be well branched. If conditions are favorable a light seed crop may be harvested the season of seeding."

In view of the foregoing we will not stock any this year.

LAWN GRASS

CLOVER LEAF MIXTURE—Do not buy a low priced lawn grass. Cheap lawn grass can only be secured by a mixture of low priced seeds. Your lawn is the introduction to your home. Make first impressions favorable.

MILLETS

EARLY FORTUNE—A sure cropper and specially valuable for late planting, as it is one of the earliest varieties.

GOLDEN—Rank Grower. Splendid variety for hay. Grows from four to five feet on rich soil. Cut when in bloom.

SIBERIAN—One of the very earliest. A very heavy cropper. Hay finer than Golden and grows taller. Rust proof.

MISCELLANEOUS

BUCKWHEAT, Japanese—Heavy yielder. Very early. Stands up well. Excellent bee pasture.

BUCKWHEAT, Silver Hull—Light gray color. Thin husk. Popular variety. Heavy yielder. Good milling variety.

FLAXSEED—It has been customary to sow on virgin sod. Satisfactory yields obtained in 1930 from old lands in the Palouse Country.

KAFFIR CORN—Attains a growth of from four to five feet, the stalk producing numerous wide leaves.

KALE, Thousand Headed—Does best in cool, moist locations, proving it to be a wonderful forage plant.

LENTILS—Succeed best in dry, sandy soil. Used largely for soup. A leguminous annual. Straw makes good feed.

RAPE, Dwarf Essex—Used solely for securing green feed. Pigs, sheep and cattle all relish it. Rank grower.

SUGAR CANE—Early Amber. Earliest, richest, best sort for northern latitudes. Can be grown where corn can be produced.

SUNFLOWER—Grown as a forage plant. Seed used for poultry, as it is very rich in oil.

VETCHES, Spring—All Vetches belong to the pea family. In the Inland Empire Spring Vetches will not withstand the winters.

VETCHES, Winter or Sand—Can be sown in fall or spring and will produce a crop. Heavy yielder.

PEAS

CANADIAN—The most popular of the white varieties. Seed almost white. A heavy cropper. Very tall vines.

ALASKA—Green smooth seed. Earlier and less

straw than the Canadians, and for this reason more popular.

NEW ERA COW PEAS—Extra early variety. Especially adapted for planting in a northern latitude.

WHIPPORWILL—About ten days later than the New Era. Prolific yielder. Vigorous grower.

Grain

Wheat

There is wheat and wheat, and it is penny wise and pound foolish to sow inferior quality. This inferior quality may be because the grains have not been fully developed or on account of impurity, or on account of improper cleaning. We guard against all three, hence our quality is right.

Winter—Jones Fife, Martin Amber, Gold Coin, Ridit.

Spring—Bluestem, Marquis, Early Bart, Federation.

Write for prices, stating quantity wanted.

Barley

Last season we contracted with reputable farmers to grow some of this for us, furnished the best seed we could secure, and now offer Beardless Barley of a very high quality.

Rye

Our present supply of spring rye is a new variety in this section. We secured a small quantity of this from North Dakota two years ago, and are able to offer this to growers this season. The grains resemble the rosen rye in color and size. It is a much heavier yielder than the old type of spring rye, hence more profitable for the farmer to grow. Will be glad to forward samples to anyone interested.

SPRING RYE—Spring rye is an excellent catch crop where winter grain has been killed out, or for sewing where a fall crop has not been planted.

WINTER RYE—Rosen Rye is a stiff-strawed, large headed variety which ordinarily has four full rows of grain on over 99 per cent of its heads.

Rosen Rye outyields common rye from 25 to 50 per cent. Ask for price.

Write for prices, stating amount wanted, or we will fill all orders at price prevailing on date of shipment, sending grain for the amount of remittance received.

Corn—Field

Dent

MINNESOTA KING—An early hardy variety. A half yellow dent with broad kernels.

MINNESOTA NO. 13—The stalks grow to a height of from six to seven feet, producing ears having 16 to 20 rows of rich yellow corn.

NORTHWESTERN DENT—An early maturing red dent, desirable in high altitudes and where seasons are short.

CHAMPION WHITE PEARL—A large, white dent popular with dairymen on account of the amount of feed it produces.

SILVER KING NO. 7—This variety has given almost universal satisfaction to dairy men that wanted a reliable corn for silo purposes. White.

WISCONSIN WHITE DENT — "Wisconsin Dent" is a large handsome White Dent, extremely early and matures perfectly.

POSTPAID

	1 lb.	5 lbs.	10 lbs.
All Field Corn.....	\$0.20	\$0.60	\$1.00
Not prepaid .....	.15	.50	.80
	25 lbs.	50 lbs.	100 lbs.
Not prepaid	\$2.00	\$3.50	\$6.00

Pop

WHITE RICE—The best corn for popping and for the general market; early, white pointed kernels. 1 lb., 20c; postage paid. At purchaser's expense, 10 lbs., 90c.

Oats

We handle the varieties mostly grown. Our quality will be as good as careful selection and recleaning can make them.

Markton Oats

The outstanding features of Markton oats are their immunity to smut and their superior yield. It is an erect, mid-tall, mid-season variety with a branching panicle. One of their distinguishing characteristics is the presence of hairs on the



Markton Oats

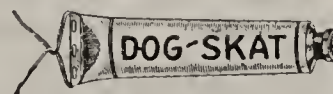
clum at the nodes. The kernels of Markton are yellowish white, long and slender and have a rather thin hull. State certified.

Write for prices, stating quantity wanted.

Nursery Stock

Make an examination of shrubbery and trees as soon as received, and report if roots are not in good condition, as our nurseryman from whom we secure our supply advises us that every root is examined when order is packed, hence if any cause for complaint we ask that report be made promptly. No attention given to complaints if not reported at once.

Add 5c for postage when your order only calls for one root and 3c per root when three or more are ordered. This will equalize postage charges, though in some cases this postage will be too much while in other instances it will be too little.



Keeps dogs, cats, and other animals away from trees, evergreens, roses, shrubbery, etc. Tube release vapor offensive to animals, but not noticeable to humans. One tube lasts a year. Non-poisonous. 2 oz. tube, 50c.

VINES AND CLIMBERS

IVIES

BOSTON IVY—Japanese Ivy. Best known and most popular climber for chimney, brick and stonework. Graceful and showy foliage, thrives under all conditions. Each, 50c, 75c.

ENGELMANNI—Deeply cut leaves which turn to a beautiful crimson in fall. Clings to walls without aid of artificial support. Vigorous growth. Each, 25c, 50c, 75c.

VIRGINIA CREEPER OR AMERICAN IVY—Fast growing, hardy creeper, massive foliage, deeply cut leaves which turn to a beautiful crimson in fall. One of the very best for porches, trees, rocky slopes, etc. 25c to 50c.

CLEMATIS

HENRYI—Large single white flower, most popular of its color. Each, \$1.00.

JACKMANI—Large velvety dark purple flower, very showy. 50c to 75c.

PANICULATA—The late flowering Japanese variety with panicles of small white fragrant flowers borne in great profusion in early fall. Very desirable, entirely hardy. Each, 50c, 75c.

HARDY EVERBLOOMING ROSES

Two Year Old. Each, 40c, except where quoted; add postage.



AMERICAN BEAUTY—One of the largest, sweetest and best; rich rosy crimson, shaded and veined in a most charming manner.

GENERAL JACQUEMINOT—The blossoms are large, full, and globular, having an excellent cup-shaped form. In color they are brilliant scarlet-crimson.

GRUSS AN TEPLITZ—Color crimson-scarlet, bright enough to attract the attention of the observer, but not vivid enough to throw other sorts into the background.

MRS. JOHN LAING—Extremely large blooms of soft pink. Long buds; cup-shaped, fragrant flowers. Free bloomer. Very popular.

PAUL NEYRON—The largest rose in existence, frequently reaching 6 inches in diameter. The color is clear pink, shading to soft rose; has a delightful fragrance.

URICH BRUNNER—Extra-large flowers of light red, bordering on scarlet or crimson—a shade of red distinctly its own. The flowers are borne in profusion on long stems.

DUCHESS OF WELLINGTON—Intense saffron-yellow stained with rich crimson. Very large. Beautiful in bud as well as open flower.

FRAU KARL DRUSCHKY—Best known white. Very popular.

KAISERIN AUGUSTA VICTORIA—Pure white, does not pink when planted out; splendid large buds and superb, full, double blooms.

EDWARD MAWLEY—One of the finest roses known. The buds are deep purplish crimson, opening to extra-large, perfectly formed blooms.

ETOILE DE FRANCE—Intensely brilliant crimson. A very free bloomer and a most excellent rose.

HOOSIER BEAUTY—A large, full flower with well shaped buds; color is an exceptionally attractive glowing, velvet crimson.

LOS ANGELES—In color a luminous flame-pink, toned with coral and shaded with translucent gold at the base of the petals.

MME. EDOUARD HERRIOT—Profuse bloomer, coral red, yellow base.

MME. CAROLINE TESTOUT—A grand rose, with large full flowers and handsome buds; rich pink. The hardest of the Teas.

PRESIDENT TAFT—Medium orange, center red shades.

CONSTANCE—Buds streaked with crimson, becoming large, full, globular flowers of shades of yellow. Each, 50c.

MRS. AARON WARD—One of the most beautiful roses of recent years in a color that catches the eye at once. A deep golden orange shading to lemon or creamy yellow at the edge of the petals. Each, 50c.

SOUVENIR DE CLAUDIUS PERNET—Its color is a sunflower-yellow, deepening in the center, and it retains this color, in bud and open bloom. The buds are produced on long, stiff stems.

SUNBURST—The buds are long and generally borne on long stout stems; the flowers are large, full, and of fine elongated cupped form. The color is a superb cadmium-yellow passing to yellow-orange in the center." Each, 50c.

GORGEOUS—Flowers are large and full. Deep orange yellow and heavily vined with reddish copper.

LADY HILLINGDON—Deep apricot yellow; long and pointed buds. Excellent for cutting.

HONEYSUCKLES

BELGIA OR EVERBLOOMING—Flowers yellow, blotched with red above; blooms all summer, fragrant. Each, 50c, 75c.



Honeysuckle

HALL'S JAPAN—Practically evergreen, retaining its rich dark green foliage most of the winter. Blooms continuously from June until frost; fragrant, white and yellow flowers, in great abundance. Each, 25c, 50c, 75c.

SCARLET TRUMPET—Trumpet shaped flowers of bright scarlet.

Each, 50c, 75c; add postage.

HARDY CLIMBING ROSES

Each, 40c, except where otherwise quoted; add postage.

CLIMBING AMERICAN BEAUTY—Heavy strong grower; hardy everywhere. Color rich red passing to crimson. Very popular.

CLIMBING GRUSS AN TEPLITZ—A perfect sheet of crimson when in bloom. It's the same as the Bush Teplitz.

DOROTHY PERKINS—Beautiful shell-pink color, which holds for a long time, fading finally to a lovely deep rose. Free of mildew.

DR. W. VAN FLEET—Large flowers of a dainty flesh pink with rosy center. Flowers of perfect form with reflex petals. Long stems.

PAUL'S SCARLET CLIMBER—Vivid scarlet, shaded crimson; makes a brilliant display for a long period of time.

TALISMAN—Vigorous, upright, rich golden red and copper.

WHITE DOROTHY PERKINS—A sport from Dorothy Perkins, possessing all the fine qualities of that grand variety; but having pure white flowers. Add postage.

FLOWERING SHRUBS

ALMOND—Spring flowering shrub, gaily in full bloom before the leaves appear. Their growth is dwarf, bushy and compact; slender branched; when in bloom completely hidden by beautiful, double flowers of rose or white, snuggling tight to the twigs. Double white and Double Pink, 2 to 3 feet, 50c to \$1.00; add postage.

ALTHEA—(Rose of Sharon)—Bloom late in August and September, with a profusion of large bright colored flowers. Each, 50c.

BARBERRY—BERBERIS

COMMON—Sturdy, erect-growing shrub, with grooved, spiny branches and light green, prickly leaves; golden yellow flowers in spring, followed by bright scarlet fruits in autumn. Two to three feet, each, 50c; 3 to 4 feet, each, 75c.

JAPAN RED LEAF—A valuable recent introduction identical with Thunbergi except the color of its foliage. Instead of the green of Thunbergi it comes out a brilliant bronzy red. The heat of summer intensifies this color and autumn adds many other rich tints. 18 to 24 in. Each, 75c, prepaid.

THUNBERG'S JAPANESE—Hardy, low-growing shrub, small, bright green, leaves that turn to orange and yellow in autumn. The bright red berries remain on the bushes all winter. Each, 35c, 50, 75c.

PURPLE—A showy and effective shrub with purple leaves; yellow flowers in May; reddish purple berries in autumn, which persist nearly all winter. Each, 50c to \$1.00; add postage.

CRANBERRY—HIGH BUSH

Handsome, dense, brilliant green foliage, a rich setting for large bunches of crimson berries which enliven the late summer and persist on bare branches into the winter. Two feet, each, 50c; 3 feet, each, 75c.

DEUTZIAS

An ornamental shrub that is grown because of its profusion of snowy white flowers in spring or early summer. A thinning out of the old wood soon after the flowering season will be of advantage, but this should be done with caution for the greatest bloom is obtained from plants that have had a minimum of pruning. Very effective for borders of shrubberies.

LEMOINES—Small, spreading shrub that is vigorous in growth and produces large white

flowers. Very effective for border planting; 12 to 18 inches, each, 50c; 18 to 24 inches, each, 75c.

PRIDE OF ROCHESTER—A distinct and vigorous-growing variety that comes into bloom early and delights the eye with its large, double, white flowers which are tinged with pink in the bud; 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c; add postage.

DOGWOOD—CORNUS

DOGWOOD (Cornus)—The shrubby dogwoods are mainly valuable for the brilliancy of their barks and berries and the handsome variegations of their foliage.

SIBIRICA—Clusters of fine white flowers in summer, succeeded by ornamental berries in fall; stem and branches turning to blood-red in winter. Each, 75c.

LUTEA—A striking yellow-branched form of *Stolonifera*. Each, 75c.

ELEGANTISSIMA—Variegated, silver-leaved. Each, 75c.

FORSYTHIAS

One of the first plants to flower in early spring, blooming before the leaf buds burst on other plants in exquisite splendor.

FORTUNEI—Bark bright yellow; blooms in dense masses of golden flowers in early spring.

SUSPENS A (Weeping Forsythia)—A very useful shrub with a wealth of slender, vine-like, drooping branches, and profusion of golden bell-like blooms. All varieties of Forsythias. Two to 3 feet, each, 50c; 3 to 4 feet, 75c; special price, mailing size, 25c each, or 3 for 50c, one variety, postpaid.



HYDRANGEA

HILLS OF SNOW or Snowball Hydrangea—One of the most showy of the Hydrangeas, with its profusion of snow-white clusters of flowers decorating the plant most of the summer similar to the well known snowball in appearance. Very showy. Each, 50c, 75c, \$1.00.

PANICULATA GRANDIFLORA, LARGE FLOWERED—A grand plant, showy and attractive, remaining in bloom for a month. Flowers are pure white, afterward changing to

pink, and are borne in immense clusters, beginning in July and holding them until October. 18-inch, 50c; 24-inch, 75c; 30-inch, \$1.00; add postage. Special price, mailing size, 25c each, or 3 for 50c. If one variety, postpaid.

LILAC

COMMON (Purple or White)—Hardy and extra fragrant, flowering in May and June.

PERSIAN LILAC (Purple)—Blooms a good deal more than the Common, and has smaller leaves. Does not sprout as much from the roots. All lilacs, 75c to \$1.50.

QUINCE FLOWERING

QUINCE JAPAN OR FLOWERING (Cydonia Japonica)—Low spreading shrub, the branches of which are armed with formidable thorns. In early spring the branches are hidden by the wealth of dazzling scarlet flowers. The quince-shaped fruits are quite fragrant. 12 to 18 inch, 50c; 18 to 24 inch, 75c; 2 to 3 feet, \$1.00; add postage.

SPIREAS



Anthony Waterer—Covered nearly the whole growing season with large umbels of deep crimson flowers. 35c, 50c, 75c and \$1.00.

PRUNIFOLIA (Bridal Wreath) — Slender erect-growing variety having beautifully colored foliage, and bearing very early in the spring small double white flowers the entire length of its branches. Very graceful habit. Two feet, 60c; three feet, 75c.

THUNBERGI—Low-growing of compact form, with delicate light green foliage which colors up beautifully in the fall. Small white flowers in great profusion, early in the spring. 50c and 75c.

VAN HOUTTEI—It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing. Two feet, each, 25c; 3 to 4 feet, each, 50c; \$1.00; add postage.

Special mailing size, 25c each, or 3 for 50c, one variety. Postpaid.

SNOWBALLS

COMMON — The old-fashioned favorite with large, globular clusters of white sterile flowers blooming the latter part of May. Very useful for specimens or for planting in groups. 50c, 75c, \$1.00.

DOUBLE JAPANESE (Pilcatum) — One of the most charming hardy flowering shrubs in

existence; bears great wreaths and clusters of pure white globular masses of flowers like real balls of snow; covered with bloom for weeks in the spring. Grows 4 to 6 feet high; entirely hardy, needs no protection; splendid for doorway, lawn and cemetery planting. Two feet, each, \$1.00.

SYRINGA OR MOCK ORANGE

GORDONIANUS—Very late bloomer, valuable for this quality, a large, fragrant white flower. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c; 4 to 5 feet, each, \$1.00.

GRANDIFLORUS — Good large flowered, strong growing sort that is very desirable. Two to 3 feet, 50c; 3 to 4 feet, 75c; 4 to 5 feet, \$1.00; add postage.

VIRGINALIS — A magnificent new variety. Moderately tall and good foliage. The double, semi-double and single flowers are large, handsome and fragrant. 2 feet to 3 feet, 75c. Special mailing size, 25c each, or 3 for 50c, one variety, postpaid.

WEIGELIAS

EVA RATHKE—A free flowering bright red variety of rather dwarf habit. 50c and \$1.00.

ROSEA—The old standard, strong growing, pink flowered variety. 35c to 75c.

ROSEA VARIEGATA (Variegated)—A near dwarf shrub, valuable for the clearly defined variegation in its leaves of green, yellow and pink. Effective and useful, being one of the best variegated leaved shrubs known. Flowers light pink and blush. Each, 50c and 75c; add postage.

Special mailing size 25c each, or 3 for 50c, one variety. Postpaid.

FRUIT

BLACKBERRIES—Bush

Two year old; Each, 20c; 3 for 50c; doz., \$1.50; 50, \$5.50; 100, \$10.00; add postage.

BLOWER—Fruit large, jet black, good shipper, hardy, productive and of finest quality.

EARLY HARVEST — Its earliness, combined with good shipping qualities, make it very profitable. Compact dwarf grower, enormous bearer. Fruit medium size, black, of excellent quality.

LAWTON—The favorite market variety; large, good quality, uniform, hangs long on vine when ripe, productive and profitable.

BLACKKBERRIES—Vining

Price: Two year old: Each, 20c; 3 for 50c; doz., \$1.50; 50, \$5.50 100, \$10.00 add postage.

HIMALAYA GIANT — A strong, rampant, trailing plant; very productive. Hardy, and thrives even under severe conditions. Fruit large, handsome and fine quality.

NEW MAMMOTH—Strong grower of trailing habit, enormously productive; very early, fruit enormous, core soft and small, seeds small, flavor unsurpassed. Add postage.

DEWBERRIES

The best and most dependable of all dewberries. Large, jet black and fine flavor. Price each, 15c; doz., \$1.50; 50, \$5.50; 100, \$10.00; add postage.

LOGANBERRIES

The loganberry is larger than the blackberry, often an inch and a quarter long; color dark red and produced in immense clusters. It partakes of the flavor of both the blackberry and raspberry.

Two year old, each, 20c; 3 for 50c; doz., \$1.50; add postage.

RASPBERRIES—Black

Two year transplants. Each, 15c; doz., \$1.50; 50, \$5.50; 100, \$10.00; add postage.

CUMBERLAND—Fruit very large, firm, keeps and ships as well as any of the blacks. The most profitable market variety. Mid-season.

GREGG—For many years the leading standard best known market sort. Very productive, large size, firm, meaty berries.

PLUM FARMER—The berries are thick-meat-ed and firm. Large and very attractive when picked.

RASPBERRIES—Red

Each, 10c; doz., 75c; 50, \$3.00; 100, \$5.00; add postage.

CUTHBERT ("Queen of the Market")—Berries very large, conical, rich crimson, very handsome; flavor is sweet, rich and luscious. A good shipper.

MARLBORO—Large size, light crimson color; good quality and firm. Vigorous, hardy and productive. The best well tested, large early berry for the north.

ST. REGIS (Everbearing)—Fruit commences to ripen with the earliest and continues on young canes until October. Berries bright crimson, large size, rich, sugary. Flesh firm and meaty, a good shipper. Each, 20c; doz., \$1.50; 50, \$4.50; 100, \$8.00; add postage.

GRAPES



Black

CAMPBELL'S EARLY—This variety is recommended very highly on account of its earliness and other good qualities.

CONCORD—Very extensively planted. Bunch and berries medium size; black, fair quality, good keeper. Vine hardy, healthy and productive.

MOORE'S EARLY—Bunch large; fruit large; round, black, with heavy bloom. Best early variety, hardy and productive.

WORDEN—Earlier, better quality and larger than Concord, equally hardy and healthy, but not as good a shipper. Best black grape for home use and nearby markets.

Green

MOORE'S DIAMOND—Bunches large; berry greenish white, flesh juicy; almost without pulp.

NIAGARA—Very hardy, strong grower; bunches large, compact. Berries large, round,

light greenish white, semi-transparent. Skin tough, does not crack, quality good.

Red

AGAWAM—Large berries, pulp soft and sweet, early.

DELAWARE—Bunches small, compact; berries rather small, round, thin skin, light red; flesh juicy, sweet, good.

LARGE VARIETIES—Tokay, Muscat and Malaga.

	Year	Each	Doz.	25	50	100
Campbell's	.....	\$0.35	\$4.20	\$8.00	\$15.00	\$25.00
Concord	.....1	.15	1.50	2.75	5.00	9.00
Concord	.....2	.20	2.00	3.50	6.00	11.00
All other	1	.20	2.00	3.50	6.00	11.00
varieties	.....2	.30	3.00	5.00	9.00	17.00

Add postage.

CURRENTS

GOOSEBERRIES

Owing to an embargo we cannot ship currants or gooseberries.

APPLES

Summer Varieties

Two and 3-year-old; Each, \$1.00; doz., \$10.00.

One year old, 5 feet; each, 60c; doz., \$6.60.

One year old, 4 feet; Each, 40c; doz., \$4.50.

One year old, 3 feet; Each, 30c; doz., \$3.50.

Write for price on 50 and 100 lots.

EARLY HARVEST—Medium, pale yellow, tender, juicy.

YELLOW TRANSPARENT—Earliest and best; white, tender, juicy, sprightly, sub-acid. Grows rapidly, bears young and makes a profitable "filler."

RED JUNE—A brilliant red variety. Its distinct flavor has made it popular.

Fall Varieties

DUCHESS—Rather large; light red streaks on yellow ground; tender and juicy; very hardy. Handsome appearance and good cooking qualities are two points in favor of this variety. Early autumn.

SNOW (Fameuse)—Medium size; bright red deepening to almost purplish black in highly colored specimens; flesh white, juicy, aromatic; heavy yielder. October.

Winter Varieties

BANANA—Large and showy; yellow, with pinkish red blush; flesh tender, heavy bearer.

DELICIOUS—This variety ranks very high either for commercial or home orchards. Large; brilliant dark red; flesh fine grained, crisp, juicy with a delightful aroma; splendid keeper and shipper, heavy bearer.

JONATHAN—Red and yellow, tender, juicy and rich. Very productive; one of the best for table and market. Extensively planted, doing well even on comparatively low lands.

RED McINTOSH—Large deep crimson, highest quality, juicy, subacid. Good for both culinary use and dessert. One of the best red winter apples.

ROME BEAUTY—Dark red striped, large, excellent quality; a market favorite, bringing good prices. Tree hardy, regular bearer, late bloomer.

STAYMAN WINESAP—Medium size; yellow ground covered with red; flesh fine, crisp, and high-flavored; reliable and heavy cropper.



WAGENER—Medium to rather large; beautiful bright red; flesh firm, subacid, well flavored; annually productive.

All apples same price. See quotations Summer Varieties.

APPLES—Crab

TRANSCENDENT — Largest of the crabs; striped red, showy, excellent and very handsome. Hardy and strong grower.

SIBERIAN, RED—Small, bright red, covered with light bloom; fine flavor, excellent for preserving. Ripens September.

SIBERIAN, YELLOW — Large, beautiful, golden yellow. September and October.

Same price as apples.

APRICOTS

One year, 3 to 4 feet, each, 40c; doz., \$4.50.

One year, 4 to 5 feet, each, 60c; doz., \$6.60.

Two and 3 year old, each, \$1.00.

MOORPARK—Very large; orange with reddish cheek; flesh orange, sweet, juicy, with fine flavor; very valuable. Ripens early August.

ROYAL—Medium size, oval, sweet yellow, tree productive; excellent drying and canning variety. Ripens in July.

TILTON—Large, flesh firm, yellow, decidedly freestone. Tree vigorous, regular and heavy bearer.

PEACHES

Two-year-old, each, \$1.00.

One year old, 4 to 5 feet, each, 60c; doz., \$6.60.

One-year-old, 3 feet, 40c; doz., \$4.20.

ALEXANDER—Medium, greenish white, nearly covered with rich red; melting, juicy, sweet. July.

CRAWFORDS EARLY—A magnificent, large yellow peach of excellent quality. Its size, beauty and productiveness make it one of the most popular varieties.

ELBERTA—The great market peach. Large, handsome; orange-yellow, nearly overspread with red, much mottled; flesh yellow, firm but tender, mildly subacid.

J. H. HALE—Large size, fine quality, red cheek, yellow meated freestone, ripening with Elberta but a better tree and more productive.

CHERRIES—Sour



Two and 3 year old selected. Each, 75c to \$1.50.

One year old, 4 feet. Each, 60c.

One year old, 3 feet. Each, 50c.

EARLY RICHMOND — Medium, dark red, melting, juicy, sprightly, rich acid, best. June.

LATE DUKE — Large, light, red, delicious fruits. Tree strong and upright, exceedingly productive. July.

MAY DUKE—Large, red, juicy, rich. June. Not so sour as some varieties, and very pleasant for sensitive teeth.

MONTMORENCY—Large, red, acid, exceedingly productive. Late June.

CHERRIES—Sweet

Two and 3 year old selected. Each, 75c to \$2.00.

One year old, 5 feet, each, 75c; doz., \$8.50.

One year old, 4 feet, each, 60c; doz., \$6.60.

One year old, 3 feet, each, 50c; doz., \$5.25.

BING—Very large; dark brown, almost black; flesh firm, rich and delicious. Immense size; good shipper.

LAMBERT — Large size and fine quality; deep, rich red, almost black; flesh firm and flavor unsurpassed. Best shipping variety; regular and heavy bearer. Ripens late July, two weeks after Royal Ann.

ROYAL ANN—One of the best known cherries. Very large, firm, rich red and white; good for table, canning and shipping, and the best of all the red varieties.

PEARS

Two and 3 year old, each, \$1.00 to \$1.50.

One year old, 5 feet, each, 75c; doz., \$8.50.

One year old, 4 feet, each, 60c; doz., \$6.60.

One year old, 3 feet, each, 35c; doz., \$4.00.

Write for prices on 50 and 100 lots.

BARTLETT—Large, buttery, juicy, high-flavored, great bearer. This sort has long been considered one of the choicest canning varieties, as well as a favorite for all other uses. August.

FLEMISH BEAUTY—Large, surface slightly rough; greenish yellow and brown; flesh very rich and sweet; tree hardy.

SECKEL—Small, but handsome and delicious; yellowish russet with a red cheek; flesh whitish, buttery, very juicy and melting.

PLUMS

Two or 3 year old selected. Each, \$1.00.

One year old, 4 to 6 feet, 50c.

One year old, 3 to 4 feet, 40c.

BRADSHAW—Very large, oval; dark violet red; juicy, sweet and good. A valuable market variety. August-September.

DAMSON—Small, roundish oval; dark purple; favorite for preserves. September.

PEACH—Large, roundish; brownish red; coarse grained, but juicy, pleasant, sprightly flavor. Freestone. Ripens July. Ranks first in popularity.

PRUNES

Two and 3 year old, each, \$1.00.

One year old, 6 feet, each, 60c; doz., \$5.75.

One year old, 3 to 4 feet, each, 40c; doz., \$4.50.

Write for price on 50 and 100 lots.

ITALIAN—Good size, purple, juicy, delicious, best for drying; separates freely from the stone.

FRENCH OR PETITE—The well-known California favorite for drying. Medium to small, egg-shaped; violet purple; juicy, very sweet, rich and sugary. Prolific, heavy bearer.

SUGAR, NEW—Fruit ripens 28 days before the French; is four times as large and dries in half the time; flesh tender and rich in sugar; color dark purple. Early, August.

QUINCES

Two year old, 3 to 4 feet, each, 75c.

CHAMPION—A prolific, constant and early bearer, oval fruit averaging larger than the Orange, quality equally fine, and a long keeper; ripens late.

CONIFEROUS EVERGREENS

Arbor Vitae

AMERICAN—Native, known as cedar. Foliage bright green; yellow-green underneath; brown and bronze in winter. Each, \$1.00 to \$5.00.

ORIENTAL—Fine with close ascending branches of a fan-shaped appearance. Each, \$1.50.

PYRAMID ARBORVITAE—Bright green leaves above and dark glossy green leaves beneath. An excellent tree where pyramid forms are desired. Each, \$1.00 to \$5.00.

Cedar

RED CEDAR—Native with striking form and beautiful color. Each, \$2.50.

Hemlock

WESTERN—Very beautiful and appealing; branches pendant and foliage deep green. Each, \$2.00.

Juniper

COMMON—Branches spreading. Fine trees.

IRISH—Pyramidal in form, foliage silvery gray. Very striking. Each, \$1.00 to \$5.00.

Privet

ENGLISH PRIVIT—Our best plant for hedges. Plant in double row 2 feet apart, 6 inches between plants, and takes 2 plants to the foot. 15 to 18 in., 10 plants \$1.00, per 100, \$7.50; 18 to 30 in., 10 plants, \$1.25; per 100, \$10.00.

GOLDEN PRIVIT—Beautiful variegated shrub used to plant in among evergreens. Gives wonderful effect. \$1.00 each.



Spruce

COLORADO BLUE—This is one of the most popular of the spruces. Very showy and ornamental. Each, \$2.00 and up.

NORWAY—A lofty, rapid grower; branches drooping. Fine for hedge or windbreak. Each, \$1.00 and up.

DECIDUOUS ORNAMENTAL TREES

As ornamental subjects, trees take first place, as they are permanent, easy to cultivate and care for. In all landscaping, the trees are the most permanent and important element.

Birch

EUROPEAN WHITE—Silvery white bark and slender drooping branches. Each, \$1.00 to \$2.50.

CUT LEAF WEEPING—A rapidly growing, graceful tree that is hardy everywhere. Bark and branches silvery white, forming a contrast with the delicate cut evergreen foliage. Its leaves seemingly are every in motion. Beautiful and effective for all purposes. Each, \$1.00, \$2.00, \$3.00, \$4.00, \$5.00.

Elm

CHINESE—A very rapid grower, adapted to semi-arid districts. Beautiful and graceful. Each, 50c, 75c, \$1.00 and up.

Flowering Crab

BETCHELS FLOWERING DOUBLE—A medium sized tree of rather upright growth covered in early spring with large clusters of pink double flowers. Each, \$1.00 to \$1.50.

Hawthorne (English)

PAULS DOUBLE RED—Rich brilliant scarlet red flowering tree. Fine for lawns. Each, \$3.00.

Linden

EUROPEAN—A favorite for street and ornamental planting. Flowers fragrant and yellow. Each, \$2.50.

Locust

BLACK—Rapid grower; fine for street planting. Each, 75c to \$2.00.



Horse Chestnut

Horse Chestnut

WHITE FLOWERING—Foliage showy, flowers stand in upright panicles. Each, \$1.50 to \$3.00.

Maple

NORWAY—Large, growth compact; foliage deep green. Handsome. 75c to \$3.00.

Mountain Ash

EUROPEAN—Very ornamental, handsome foliage turning orange red in the fall. Red berries remain on the tree most of the winter. \$1.00 to \$3.00.

Weeping Willow

WISCONSIN—Large glossy leaves and very pendulous habit. Each, 75c to \$1.50.

RUSSIAN GOLDEN—The well-known common weeping willow. Each, \$1.50.

Add 5c for postage for the first root and 3c for each additional root. This will equalize postage, though in some cases this postage will be too much while in other instances it will be too little.

Fertilizers

Write for prices on all fertilizers, stating amount wanted. Present quotations not guaranteed.

Good fertilizer is as important as good seed and quality and quantity yields can only be secured when the ground is in a high state of the elements necessary to produce maximum results, and this soil condition can only be secured by the application of a dependable commercial fertilizer. For this reason the use of commercial fertilizer is increasing rapidly in the Northwest.

BONE MEAL STEAMED—You will notice this is referred to as Steamed Bone Meal, because it has been given a special treatment in order that the different elements may be the more readily converted into plant food. Used

extensively for bulbs, flowers, roses, and green-houses.

Ton	\$2.25 per 100 lbs.
Less than ton.....	2.35 per 100 lbs.
Less than 1000 lbs.....	2.45 per 100 lbs.
Less than 500 lbs.....	2.60 per 100 lbs.
100 lbs.	2.75 per 100 lbs.
Less than 100 lbs.....	5c lb.

GYP SUM

Agricultural gypsum (land plaster) is an untreated, ground, natural rock fertilizer, consisting mainly of hydrated calcium sulphate.

Gypsum furnishes sulphur in available form. For beans, peas and vetches it may be drilled in with the crop. The rate of application is 200 to 500 pounds to the acre.

In deciding whether to use gypsum or sulphur the relative cost is an important factor. Results have indicated that it requires about four times as much gypsum as sulphur to give equivalent increases in yield.

Ton	75c per 100 lbs.
Less than ton.....	80c per 100 lbs.
Less than half tons.....	90c per 100 lbs.
Less than 5 bags.....	95c per 100 lbs.
Bag lots	\$1.00 per 100 lbs.

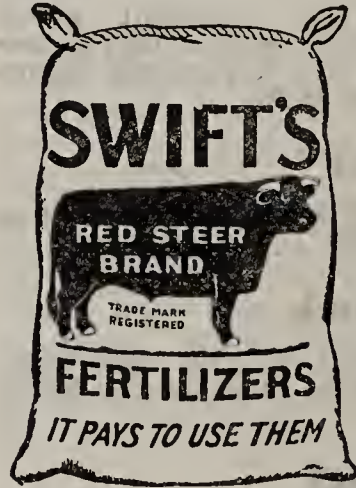
MURIATE OF POTASH—The great importance of adding potash to some soils is well known. 50% Potash.

Ton	\$3.00 per 100 lbs.
Less than ton.....	3.10 per 100 lbs.
Less than 1000 lbs.....	3.20 per 100 lbs.
Less than 500 lbs.....	3.35 per 100 lbs.
100 lbs.....	3.50 per 100 lbs.
Less than 100 lbs.....	5c per lb.
Less than 50 lbs.....	6c per lb.
Less than 25 lbs.....	8c per lb.

NITRATE OF SODA—Contains 13 per cent Nitrate, in quickly available form. It is used for forcing crops like lettuce, celery, etc., as it makes a large growth of leaves and tops.

Apply the Nitrate of Soda by broadcasting it evenly over the entire surface of the vegetable field you are fertilizing, at the rate of 250 pounds per acre, before seeding, or planting, or transplanting.

Ton	\$2.80 per 100 lbs.
Less than ton.....	2.85 per 100 lbs.
Less than 1000 lbs.....	2.90 per 100 lbs.
Less than 500 lbs.....	2.95 per 100 lbs.
100 lbs.....	3.00 per 100 lbs.
Less than 100 lbs.....	5c per lb.
Less than 50 lbs.....	6c per lb.
Less than 25 lbs.....	8c per lb.



RED STEER — This mixture is especially prepared for gardeners and orchardists who want a reliable fertilizer and is highly recommended for potatoes and garden crops generally, as well as for berries and all sorts of fruit. Analysis: Nitrogen, 5%; Phosphoric Acid, 6%; Potash, 8%. Bags contains 125 lbs. each.

Ton	\$2.50 per 100 lbs.
Less than tons.....	2.55 per 100 lbs.
Less than 1000 lbs.....	2.60 per 100 lbs.
Less than 500 lbs.....	2.65 per 100 lbs.
100 lbs.....	2.75 per 100 lbs.

The following fertilizer analyzing 3.10.10 sells at same price as 5.7-8.

SHEEP MANURE—Contains Nitrogen, Phosphoric Acid, Ammonia and Potash in liberal proportions. Produces immediate and lasting effect. Promotes steady and rapid growth.

It should be applied liberally, as it will not burn and the cost is low. Recommend 100 lbs. to 2,000 square feet. No objectionable odor. \$1.00 per bag.

SULPHUR

Studies show that about five or six pounds of sulphur per acre are brought down by the average rainfall of 21 inches, while a two-ton crop of alfalfa removes about 12 pounds of sulphur per acre.

Ton	\$3.00 per 100 lbs.
Less than ton.....	\$3.12½ per 100 lbs.
Less than 1000 lbs.....	\$3.25 per 100 lbs.
Less than 500 lbs.....	3.50 per 100 lbs.
Less than 100 lbs.....	5c per lb.
Less than 50 lbs.....	6c per lb.
Less than 25 lbs.....	8c per lb.

Price subject to change.

SULPHATE OF AMMONIA—This contains per cent nitrate and is used for the same purposes and in the same way as nitrate of soda, the only difference being that this has a higher percentage of nitrate. 20% nitrate.

Ton	\$2.25 per 100 lbs.
Less than ton.....	2.30 per 100 lbs.
Less than 1000 lbs.....	2.40 per 100 lbs.
Less than 500 lbs.....	2.45 per 100 lbs.
100 lbs.....	2.50 per 100 lbs.
Less than bag.....	4c per lb.
Less than 50 lbs.....	5c per lb.
Less than 25 lbs.....	6c per lb.

SUPERPHOSPHATE—This is a concentrated form of phosphoric acid. 17% phosphoric acid.

Ton	\$1.75 per 100 lbs.
Less than ton.....	1.80 per 100 lbs.
Less than 1000 lbs.....	1.85 per 100 lbs.
Less than 500 lbs.....	1.90 per 100 lbs.
100 lbs.....	2.00 per 100 lbs.
Less than bag.....	4c per lb.
Less than 50 lbs.....	5c per lb.
Less than 25 lbs.....	6c per lb.

Prices subject to change.

TANKAGE—This gives off very little odor and is highly recommended as a reliable fertilizer. Use about 500 lbs. to acre for row application and about 1,000 lbs. broadcast, 4½ nitrogen, 7 phosphoric acid.

Ton	\$1.75 per 100 lbs.
Less than ton.....	\$1.87½ per 100 lbs.
Less than 1000 lbs.....	\$2.00 per 100 lbs.
Less than 500 lbs.....	2.25 per 100 lbs.

Prices of all fertilizers subject to change.

Quotations on fertilizers are prices prevailing Dec. 1, 1933, but as these are liable to change our prices may advance or decline, therefore it is better to write for prices stating amount wanted.

Please note that analysis on fertilizers may vary from figures here given as sometimes the different mixtures will vary somewhat, hence not guaranteed to be exactly correct.

for Velvety-green Lawns

feed regularly with this
complete, balanced diet

VIGORO
Complete plant food



For a better lawn, more beautiful flowers, and fine vegetables, you can rely on VIGORO.

You can enjoy these beauties of nature if you use good seed, plants, bulbs, and the right plantfood. The right plantfood is important because plants must be fed the same as human beings.

VIGORO is scientifically balanced and complete, and provides an economical, practical, and effective way to secure finest results. Economical because the cost is only 10c to 20c for every 100 square feet. Practical because it is clean, odorless, easy to apply—can be sown by hand like grass seed or applied with an ordinary kitchen colander. Effective because it contains all of the elements of plantfood necessary to grow richly colored flowers, velvety lawns, succulent

vegetables, luxuriant shrubbery, and healthy trees.

100-lb. bag, \$4.00; 50-lb. bag, \$2.50; 25-lb. bag, \$1.50; 10-lb. carton, 85c; 5-lb. carton, 50c; 12-oz. carton, 10c; add postage.

Complete directions in every bag.



Fertilizer Spreader

This spreader will scatter Vigoro or any other fine fertilizer evenly over your lawn. Simple and easy to use. Model B. Hopper, width 14 inches. Price, \$3.75. Junior Hopper, width 16 in. Price, \$7.50.

Plants fed with **STIM-U-PLANT** will grow infinitely better; keeps your house plants healthy all year long. Odorless; clean. Simply insert tablets in soil. Complete directions in every package.

Box of 30 tablets 25c, postpaid 30c; 100 tablets 75c, postpaid 85c.



Plantabbs



Plantabbs are small, clean tablets without odor. Nitrogen, ammonia, phosphoric acid and potash in proper balance. Especially good inside where smelly fertilizer cannot be used.

Plant one tablet in each pot every two weeks and you'll have the finest flowers you ever grew.

30 Tablets, 25c; 75 tablets, 50c; 200 tablets, \$1.00; 1000 tablets, \$3.50; postpaid.

Adco

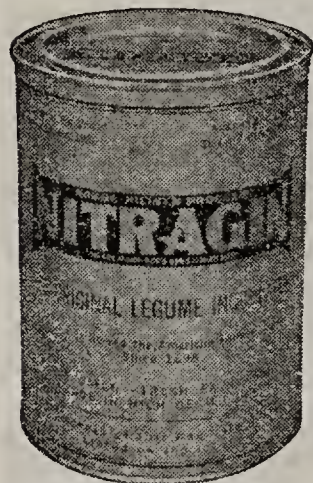
There is nothing like manure. Nothing can take its place. It has had only one fault, there never has been enough of it.

Adco is a powder which when mixed with all kinds of non-woody vegetable refuse such as stalks, cuttings, withered leaves and flowers, potato, bean and pea vines, cabbage leaves and stalks, etc., are converted into artificial manure.

The refuse is arranged in layers, saturated with

water and then sprinkled with ADCO, according to the directions which accompany each bag.

Nothing further is required beyond keeping the heap moist and turning in the dry outside portions at the end of six weeks. In from three to six months the heap becomes converted into real manure of excellent quality. 25-lb. bag, \$2.25, add postage. Enough for 12 wheelbarrow loads of garden waste.



Inoculate Alfalfa, Clovers, Vetches, Peas and Beans with Nitragin

Nitragin is not a dry inoculant, but contains 30% to 40% moisture and will readily adhere to the seed without the addition of water and produce splendid results. The use of water is recommended when mixing legume culture with seed. All unsold packages are destroyed each year

by a factory representative. Each can is dated.

NITRAGIN PRICES, POSTPAID ALFALFA AND CLOVERS

½ bu. size inoculates 30 lbs. seed.....	\$0.35
1 bu. size inoculates 60 lbs. seed.....	.65
2½ bu. size inoculates 150 lbs. seed.....	1.40



PEAS, BEANS, VETCHES

Garden size	\$0.25
½ bu. size inoculates 30 lbs.....	.35
1 bu. size inoculates 60 lbs.....	.50
5 bu. size inoculates 300 lbs.....	2.25

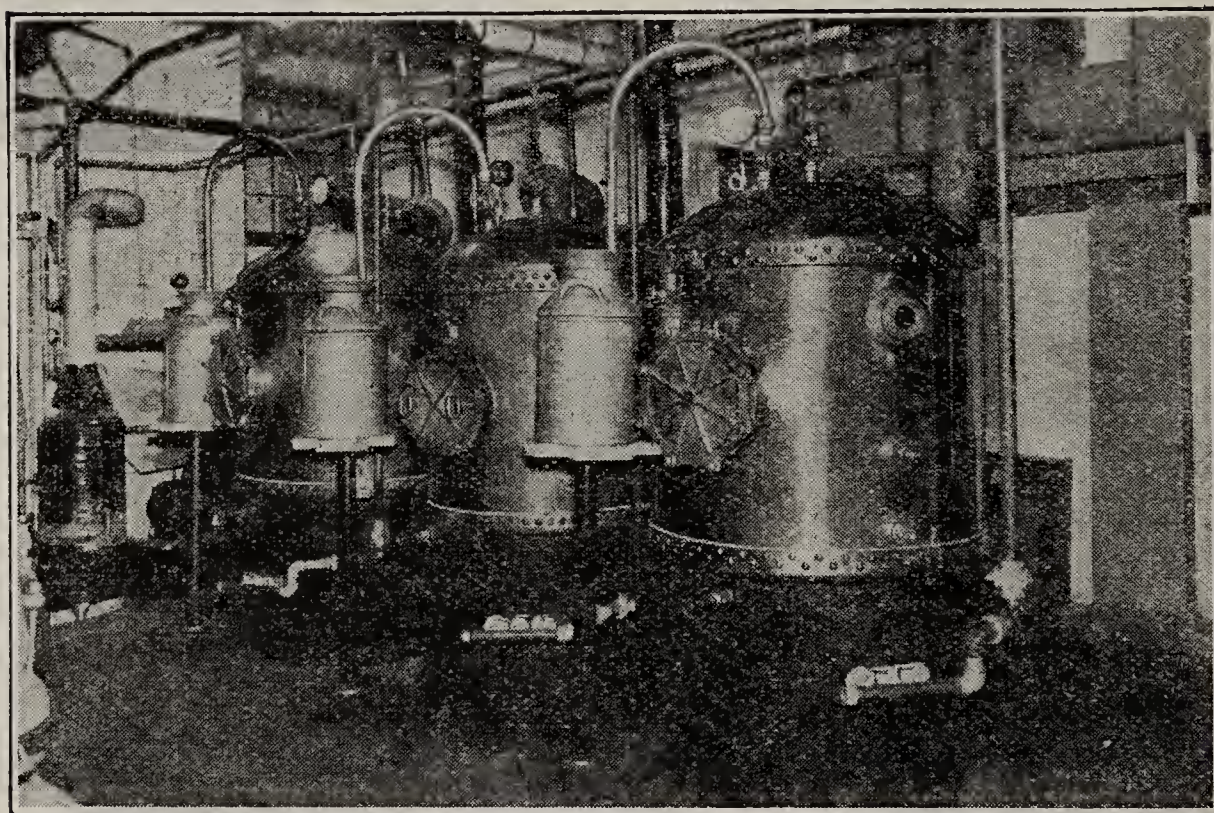
When ordering specify particular seed you are going to inoculate.

GROMORE

Nothing better for flowers and house plants. A tablespoonful to hill of potatoes, tomatoes or ordinary rose bushes means abundant flowers, crisps and early vegetables.

A teaspoonful for 6 to 8 in. potted plant.

The small amount that it is necessary to use makes Gromore one of the most economical fertilizers. 2 lb. pkg., 25c; add postage.



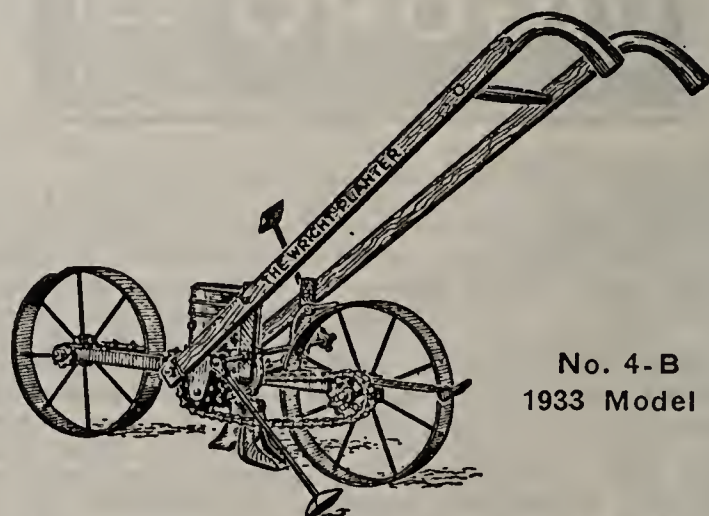
While most laboratories still continue to produce their legume cultures by the tedious method of growing them in bottles, the Nitragin Company of Milwaukee uses a truly mass production method. Three patented incubators shown in the picture are in constant use during the production season. The legume bacteria are grown under an exclusive patented process, and the mass of bacteria obtained after three or four days' growth in a single incubator is sufficient to make enough NITRAGIN to inoculate 8,000 bushels of small seeds, like alfalfa and clovers. Nitragin culture is produced under accurate control by trained specialists.

Seeders and Cultivators

Wright's Planter

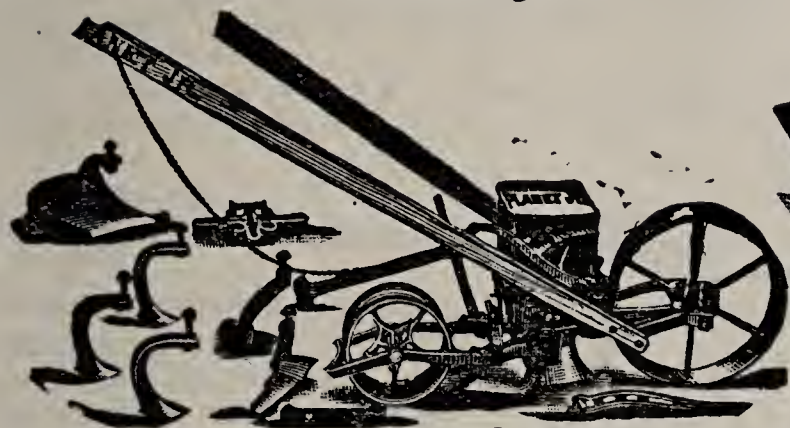
The trenching point or furrow opener is pointed downward and opens a seed row in a hard or soft seed bed. The wide tire following wheel packs the planted row. The sprocket drive is positive to the driving gears, and the chain drive can be had from either the rear or front axle.

With the eleven plates furnished with each machine, they will operate to drill evenly, or hill plant seeds spaced every 45 inches, every 22½ inches, 15, 11½ or nine inches.



No. 4-B
1933 Model

Price, \$18.50. Weight 40 lbs. Add postage. Can also furnish a two-row planter.

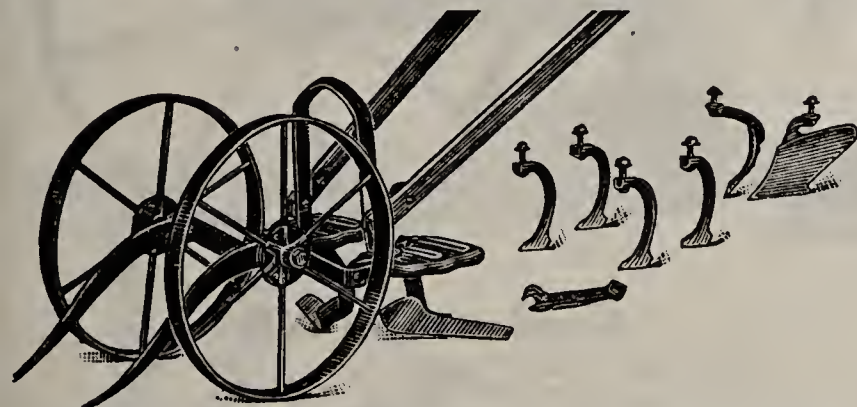
No. 4 Planet Jr.

It combines in a single implement a first-class, hill-dropping seeder, a single wheel hoe or weeder, a cultivator and a plow. The hopper holds two quarts of seed, which can be sown in continuous rows, or dropped in hills, at 4, 6, 8, 12 or 24 inches apart.

Price complete, \$17.25. Seeder only, \$14.00.

No. 11 Double Wheel Hoe

No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Price, \$13.50.

No. 12 Planet Jr.

No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Price, \$10.75.

No. 17 Planet Jr.

Wheel can be placed on outside of wheel arm to work both sides of the row at one time. With the plow, all the necessary plowing, opening and closing of furrows for seed, fertilizer, etc., and hilling of plants can be done. Price, \$7.75.

No. 19 Planet Jr.

No. 19—This attractive implement is especially designed for the farmer's garden work. The height of the handles can be changed to suit. Price, \$5.00.

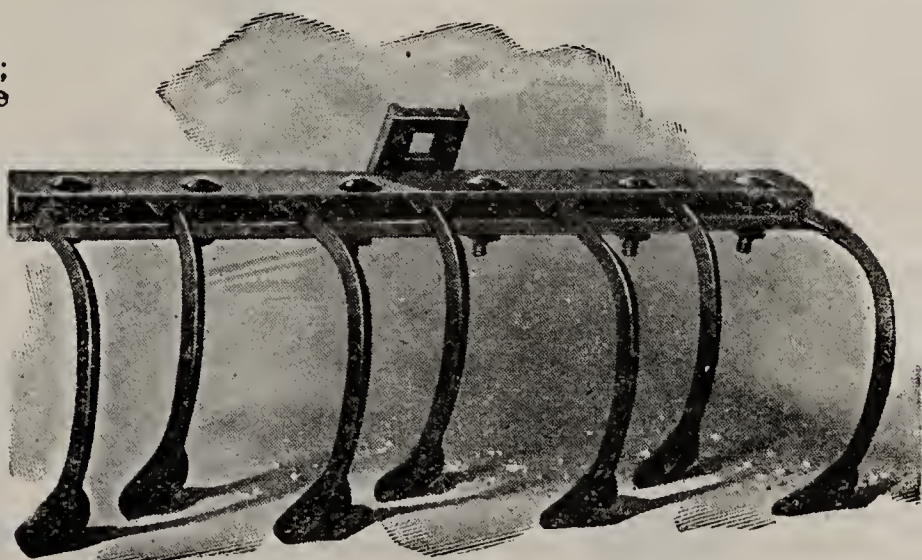
No. 25 Planet Jr.

As a drill it is almost identical with the Planet Jr. No. 4 Drill, and is thoroughly substantial and accurate in sowing all kinds of garden seeds in hills or drills. Price, \$21.75.

PLANET JUNIOR'S EXTRAS

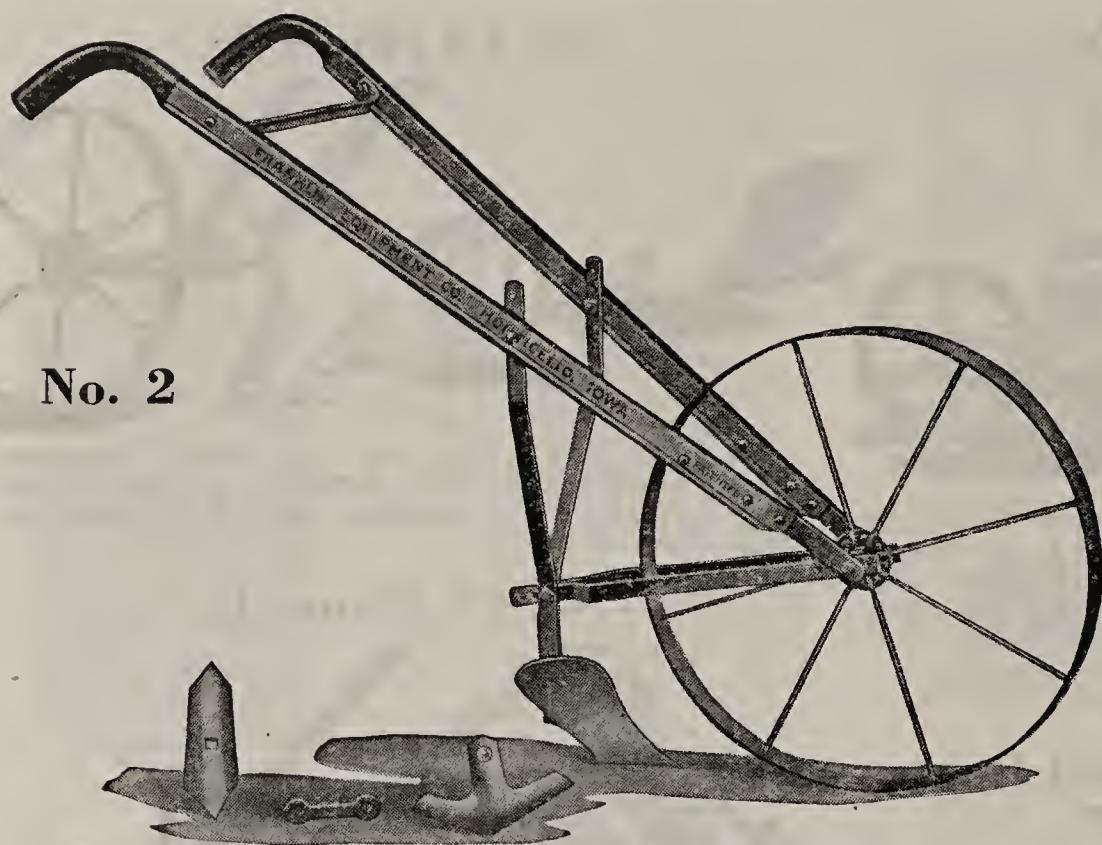
Size—	Price Pair	Weight Pair
Hoes, 6 inch.....	\$1.30	3 lbs.
Hoes, 7½ inch.....	1.50	3 lbs.
Hoes, 9 inch.....	1.65	3 lbs.
Rakes, 3 teeth.....	1.00	2 lbs.
Rakes, 5 teeth.....	1.60	2 lbs.
Rakes, 7 teeth.....	2.25	3 lbs.
Cultivator teeth, each.....	.35	1 lb.
Plows for double wheel hoes. Each	1.40	3 lbs.
Plows for single wheel hoes. Each	1.10	3 lbs.
Handles, per pair.....	1.00	3 lbs.

Add postage.

Cultivator Attachments

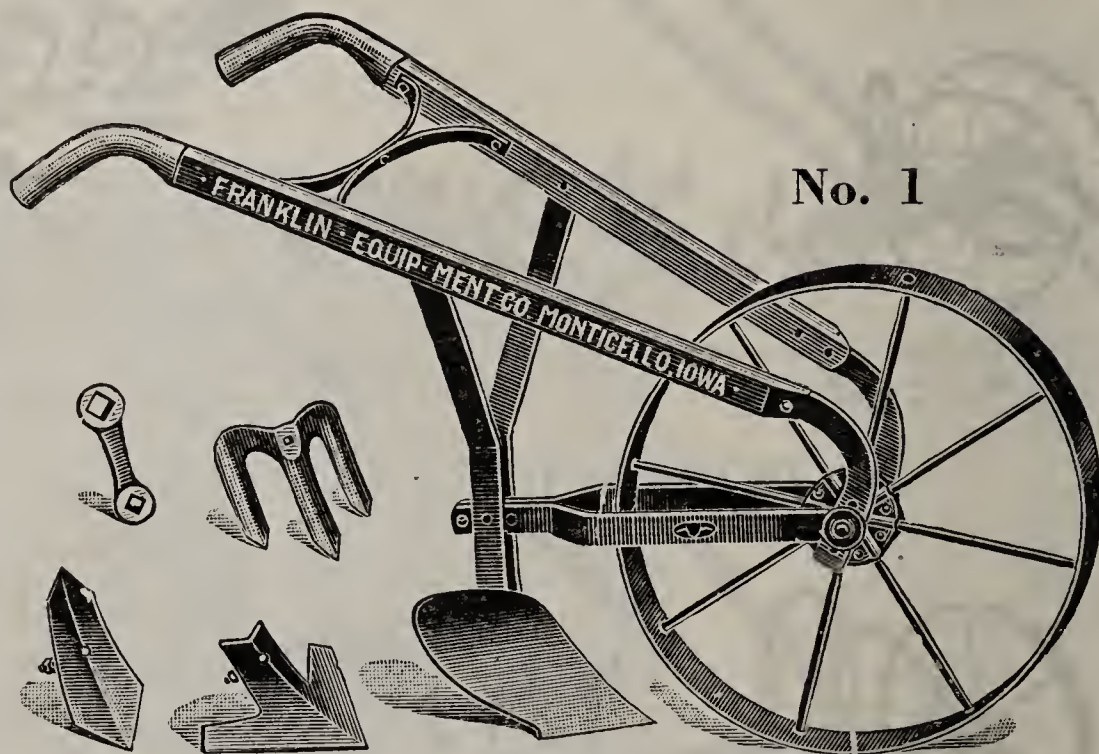
Prongs are made of best forged blades, and each prong can readily be removed. Attachable to any standard plow on the market. Permits a scope of cultivation impossible with stationary prong cultivators. Width 12 inches. Weight, 3 lbs. Price, \$1.25; add postage. Prongs, each, 20c; bolts, 10c.

No. 2



NO. 2 — Handles made of hollow pressed steel 1x2 in., 24-in. diameter wheel, 1¼-in. tire, 3¼-in. hub. Price, \$3.50.

NO. 1—Handles made of hollow pressed steel 1x2 inches. No wood to split, crack, or warp. 24-inch wheel, 1¼-in. tire. Hub 3¼ in. in width. Adjustable handles. By loosening one bolt handles can be raised or lowered. Three-hole adjustment permits changing the draft to suit different soils. Price, \$4.25.



No. 1

Cultivator Hoes



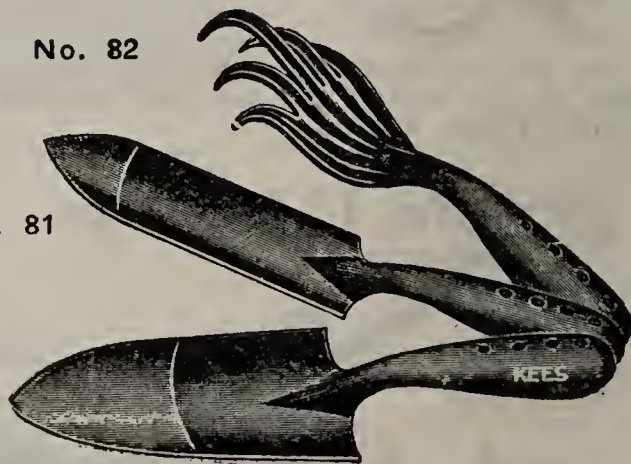
Two prongs are changeable for rows of any width. Loosening nuts, releases the prong. Works between rows or center prong can be removed and rows straddled. 4½-foot handle. 5-prong, price \$1.25, weight 5 lbs.; 3-prong, price \$1.00, weight 4 lbs. Prongs only: 5 prongs, \$1.00; weight 4 lbs.; 3 prongs, 75c, weight, 3 lbs. Add postage. Prongs, 20c.

Garden Trowels

No. 82

No. 81

No. 80

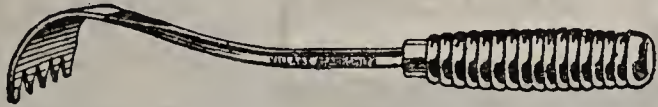


NO. 80 — GARDEN TROWEL — One-piece heavy pressed steel. Blade 6¼ inches long, 3⅜ inches wide, handle 5 inches long. Blade ground and polished. Handle perforated. Beautiful dark blue lacquer finish. Price, 20c; postpaid, 25c.

NO. 81 — TRANSPLANTING TROWEL — One-piece of heavy pressed steel. Blade 6¼ inches long by 1⅝ inches wide. Otherwise like No. 80. Price, 20c; postpaid, 25c.

NO. 82—GARDEN WEEDER—Has five corrugated fingers with ground and polished points. Round, perforated handle. Blue lacquer finish. Length, over all, 9½ inches. Price, 20c; postpaid, 25c.

NO. 183—GARDEN SET—Above three pieces. Price, 60c; postpaid, 70c.



Five prong, corrugated handle. Price, 50c; postpaid, 60c.

Planters

ACME SEGMENT—Automatic slide type. Segmental pressed steel side, adjustable for number of kernels, running in segmental steel track. Chinese bristle brush cut-off. Double soil steel spring, adjustable depth gauge, fixed dump lever, galvanized hopper with hinged cover, galvanized seed spout. Can be used also for planting beans. Pumpkin seeds may also be planted by operator dropping seed into hole in spout. Weight, 5 lbs. Price, \$1.90; add postage.

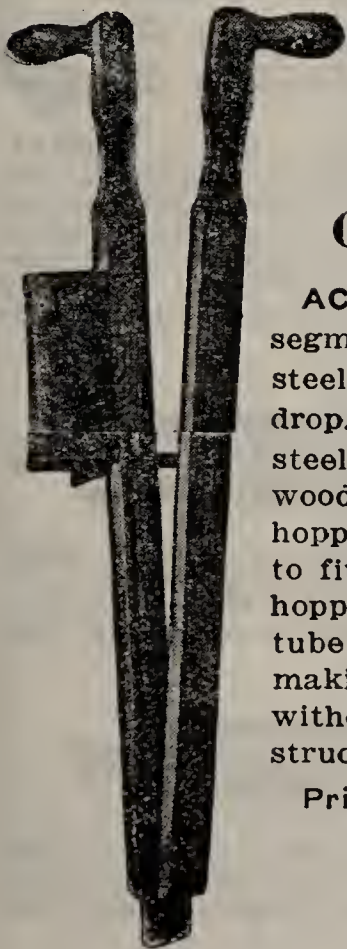
CORN PLANTER



CORN PLANTER

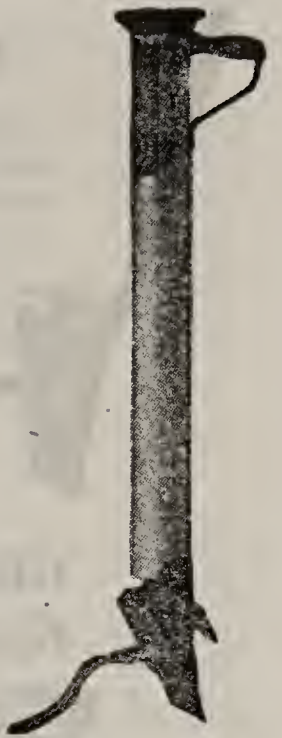
ACME OR TRIUMPH—The segmental slide is of pressed steel, adjustable to vary the drop. The jaws are of pressed steel securely riveted to hardwood sides, and the cover of hopper is also steel with hinges to fit over the top. The hopper, hopper bottom and conveyor tube are of pressed steel, thus making the planter complete, without a casting in its construction. Weight, 5 lbs.

Price, \$1.25; add postage.



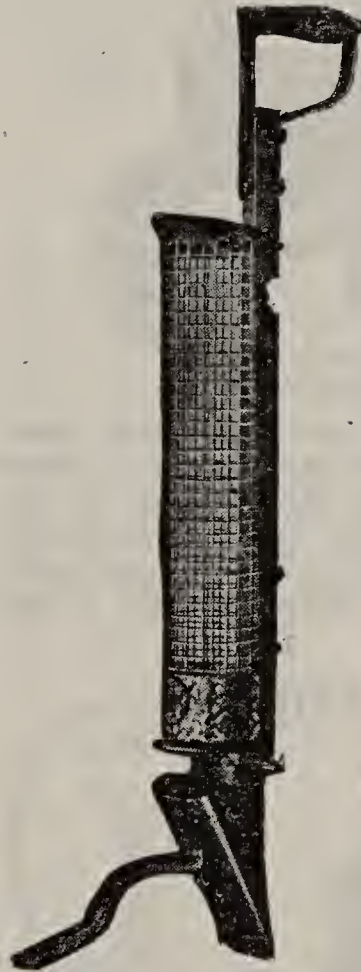
POTATO PLANTER

ACME SELF-LOCKING TUBULAR—The jaws are formed from bright steel dipped in a special preparation to prevent rust. The lock is secured by the front jaw slipping down ⅜ of an inch, which causes a pair of studs on its upper corners to slip over corresponding shoulders in the rear jaw. When thrust into the soil to deposit the seed, the front jaw is pushed up, releasing the lock. Galvanized iron tapered conveying tube. Weight, 6 lbs. Price, \$1.75; add postage.



POTATO PLANTER

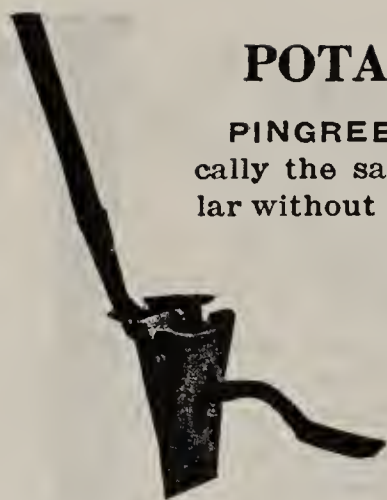
ACME WIRE TUBULAR—Strong hardwood handle, set into malleable iron socket securely riveted to back jaw. Foot plates provided on socket. Adjustable dump or depth gauge. Wire mesh conveying tube by which each seed can be seen when passing through the tube. Weight, 6 lbs. Price, \$1.75; add postage.



Master's Rapid Plant Setter

Each plant is SET, WATERED and COVERED in one operation without any stooping and no lame backs. A man simply walks along in an upright, comfortable position and will set from 8,000 to 15,000 plants per day and never have to bend his back. It does perfect work. The roots of each plant are put into the ground in a natural position and firmly set by the absorption of the water. Weight, 6 lbs. Price, \$6.50; add postage.



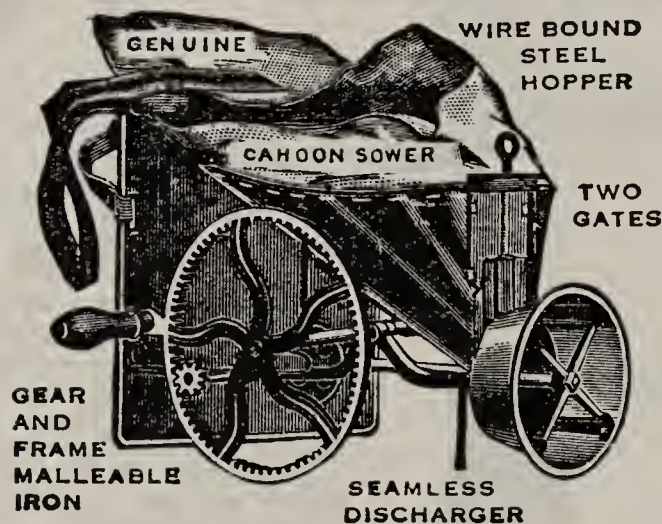


POTATO PLANTER

PINGREE OR ACME—Is practically the same as the Acme Tubular without the tube down the handle. You lift the planter up and drop the potato in the lower part. It is light and a very satisfactory planter. Weight 5 lbs.; price, \$1.25; add postage.

GRASS SEEDER

Genuine Cahoon

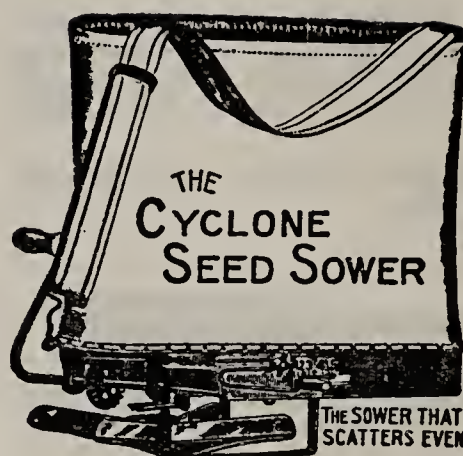


The Genuine Cahoon has malleable iron frame, top of hopper wire bound, bag 7-ounce duck, double gate, speeded so that step of operator at an ordinary gait corresponds to one complete turn of the handle. Secure the genuine original Cahoon Seeder as it is much superior to imitations. Price, \$5.00. Weight 8 lbs. Add postage.

GRASS SEEDERS



WHEELBARROW—They run easily, and sow evenly in windy weather. The quantity of seed sown is accurately governed by the wheel, which moves correspondingly slow or fast as the machine runs over the ground. This seeder is constructed on up-to-date principles. It has a strong steel wheel, 32 inches in diameter, with an inch and a quarter by one-quarter inch steel tire. 14-foot spread. Price, \$15.00.



IMPROVED CYCLONE

The improved "Cyclone" is the only Hand Seed Sower that is framed together with a slope feed board.

Automatic Feed Shut-off starts or stops flow of seed instantly.

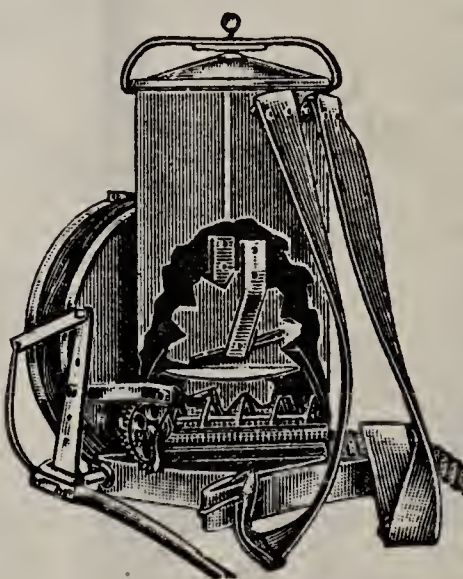
The improved "Cyclone" is guaranteed to sow perfectly all

seed that can be sown broadcast, such as clover, timothy, millet, flax, wheat, oats, alfalfa, etc., etc. Weight, 5 lbs. Price, \$2.25; add postage.

DUSTERS

American Beauty

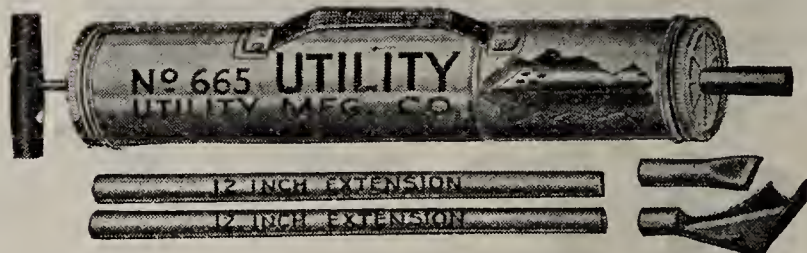
THE WORLD'S FINEST ONE-MAN DUSTER



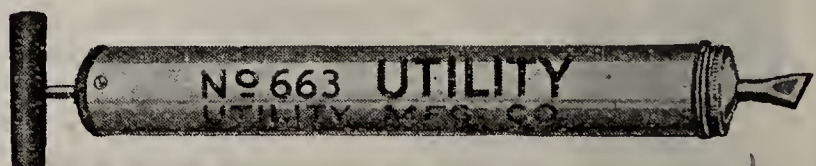
When dusting is to be well done and a great deal depends on perfect protection from insect pests and disease, the supremacy of the American Beauty has never been questioned.

Its high quality, stability and perfect performance make it ideal for growers of valuable crops.

Price, \$20.00.
Weight, 18 lbs.
Add postage.



NO. 667—A large size duster, pump operated, and is adapted to field crops such as potatoes, onions, melons, beans, etc. Pump heavy coated sheet steel, 2 3/4 inches in diameter by 12 inches long. It is furnished with a straight flat nozzle for ordinary use, also with a broad angle tip for reaching underside of leaves. Price, \$2.25; weight, 6 lbs.; add postage.



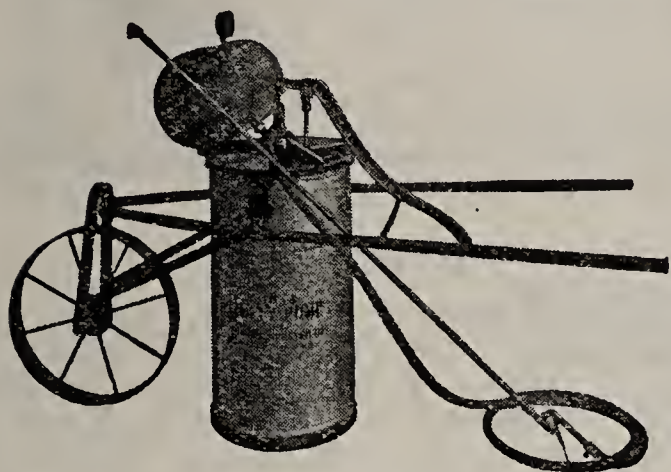
NO. 663—Medium size but very efficient when used around restaurants, stores, offices, etc., in applying any sort of powder for the extermination of bed bugs, roaches, ants, etc. Price, 50c; weight, 2 lbs.; add postage.



NO. 660—Small size but a great favorite when used about the home for any kind of insecticides in powder form. Price, 35c; weight, 2 lbs.; add postage.

Pumps

UTILITY SPRAY PUMPS



No. 40A

TANK is larger than most similar outfits, made of heavy galvanized iron, reinforced at top and bottom with heavy band iron rings. Capacity, 18 gallons.

PUMP—The cylinder is made of heavy brass tubing and has brass plungers packed with specially treated cotton wick to resist action of chemicals; can be tightened or expanded without removing from cylinder. Valves and all parts that come in contact with liquids are brass. Iron handle of good length makes pumping easy; 175 pounds pressure is easily maintained. Mechanical agitator keeps liquids thoroughly mixed. A fine strainer at suction end prevents sediment getting into working parts of pump. Price, \$35.00.

Utility Compressed Air Sprayer



No. 130

Tank—Size, 7¼ by 20 inches; capacity, 4¼ gallons. The convex flanged ends of 20-gauge material, the closely riveted and well soldered cylinder, double folded at top and bottom makes the tank very strong.

Pump—The plunger is fitted with a well-formed high-grade leather and operates easily

in a heavy brass cylinder 1¾ inches by 15 inches long. The bronze ball check, seating on brass, will not deteriorate.

Hose—½-inch, 5-ply, 24 inches long, on standard hose connection with wire coil that prevents kinking, nozzle pipe and hose connection cemented into hose and fastened with brass ferrules.

Nozzle—Angle automatic, self-closing type; made of brass, equipped with strainer and two extra spray discs.

Galvanized tank, \$6.00; brass tank, \$9.00. Weight, 11 lbs. Add postage.

12-inch brass extension, 50c.

20-inch brass extension, 75c.

No. 125

Tank—Same size, material and construction as the tank used in No. 130 air sprayer. Capacity 4 gallons.

Pump—The pump handle is non-breakable. The plunger rod is fitted to a well formed high grade leather, which operates easily in a heavy brass cylinder 1¾ inches in diameter by 15 inches long.

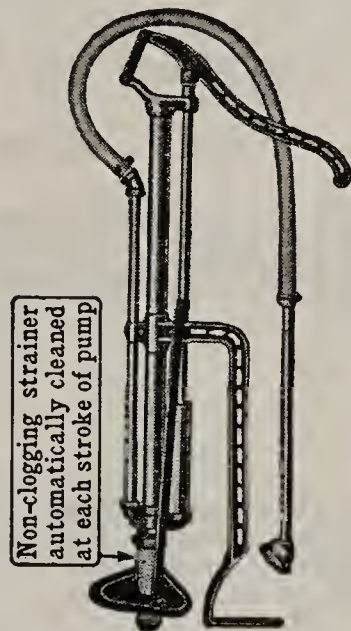
Hose—¾-inch, 5-ply, 24 inches long.

Nozzle—Straight Automatic, self-closing type.

Galvanized tank, \$5.00. Weight, 9 lbs.; add postage.

Moro

A very powerful pump for white-washing, orchard and vineyard work, and many other spraying jobs. Quick removable valve assembly and double acting pump. Handle is heavy malleable, designed to give operator easy leverage. Variable discs. Weight 10 lbs. Price \$5.50; add postage.



Modoc

A general purpose bucket pump of high pressure. Develops 125 pounds pressure, easily maintained, continuous in operation. Pump and working parts of brass. Adjustable foot rest. Valve assembly quickly removed for cleaning. Weight 5 lbs. Price, \$3.50; add postage.



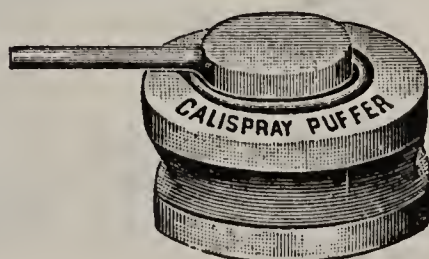
Most powerful dust puffer built.

Made of metal with heavy bellows.

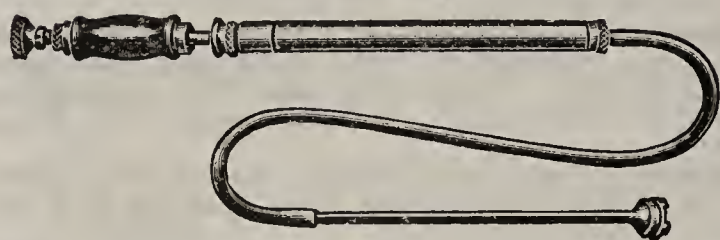
Ideal for applying Flea, Fly, Moth, or Insect powders. Easy to fill. Holds two ounces. Throws cloud four to six feet.

Price, 35c; post-paid, 40c.

Calispray Puffer



Trombone Sprayer



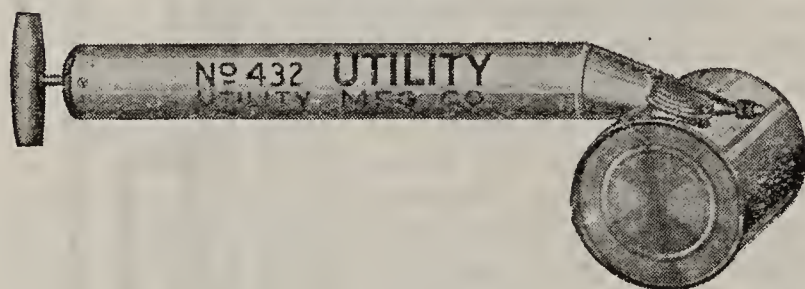
The Trombone Sprayer is double acting and continuous,, maintaining a steady discharge without undue exertion on the part of the operator. All parts are brass, with bronze ball valves, easily accessible for cleaning, etc. Fitted with 3 feet of $\frac{3}{8}$ -inch spray hose, intake pipe and strainer, weighted so as to remain in barrel or pail when being used.

	Price	Weight
Trombone Jr.	\$3.00	4 lbs.
Trombone Sr.	4.00	6 lbs.
Add postage.		

Spray Gun

With a spray gun an orchard can be sprayed in one-half the time required when using extension pipes, changing from the wide mist spray to long distance spray requires only a quarter turn of the handle grip. Length over all, 23 inches. Weight, $2\frac{3}{4}$ lbs. Price, \$6.00. Add postage.

Continuous.



No. 432

Valve and nozzle of brass. Powerful pump, large filler opening. Handles all oil solutions like fly spray, moth preventive, etc. Tin, 75c each; brass, \$1.00 each. Mailing weight of each, 2 lbs. Add postage.

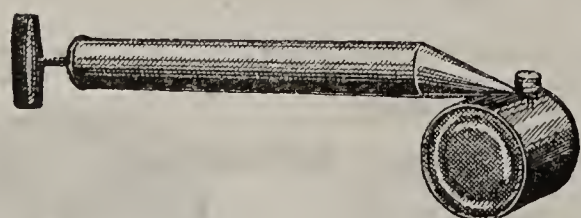
Inland Special Sprayer



No. 452

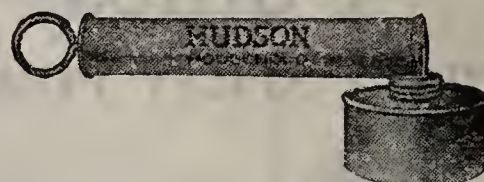
Inland Special Sprayer is a single Tube Tin Sprayer. The pump cylinder measures $14\frac{1}{4}$ inches in length by $1\frac{1}{4}$ inches in diameter. Weight, 2 lbs. Price, 45c. Add postage.

Baby Midget Sprayer



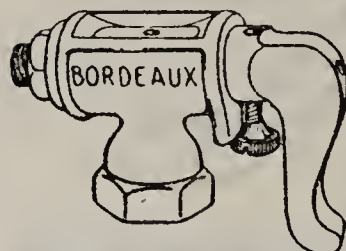
A small size single tube Tin Sprayer for household use. Strong and substantial and possessing every feature of the larger types. Capacity, about $\frac{1}{2}$ pint. Price, 30c. Weight, 2 lbs. Add postage.

Household Sprayer



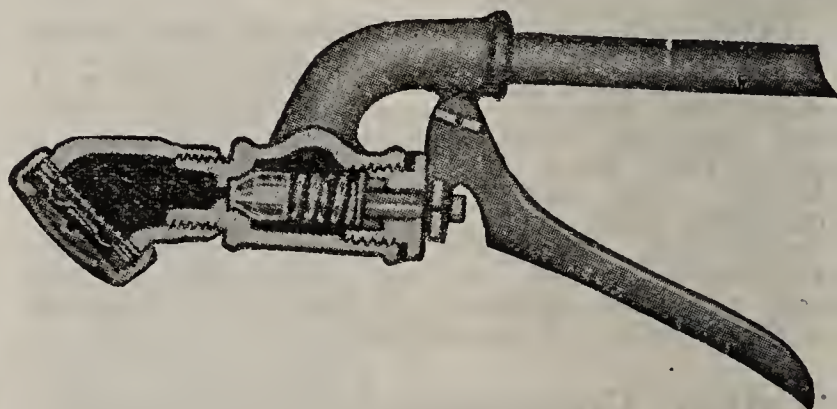
This sprayer is particularly designed for household uses and handles fly oils, moth preventives and all household disinfectants. Price, 20c. Weight, 1 lb. Add postage.

NOZZLES



BORDEAUX — The handle is built close down to the body and is shaped so as to avoid catching in the branches. The corners of the slot are cut away, leaving plain

straight faces which form a clean-cut spray without ragged edges. Price \$1.00; postpaid \$1.05.



No. 235

235 Nozzle, $\frac{1}{8}$ -inch pipe for $\frac{3}{8}$ -inch hose.

30-80 Nozzle, $\frac{1}{4}$ -inch pipe for $\frac{1}{2}$ -inch hose

With our patent feature the shut-off is always at discharge and regardless of what length of pole is used. This eliminates use of stop-cock. Nozzle seats are brass, not rubber.

Price, each, \$1.50; postpaid, \$1.60.

VERMOREL— This nozzle throws a beautiful, misty, circular spray. All trouble caused by clogging in the bend is avoided by having the stem detachable. This also shows the nozzle to be turned at any angle desired. Price, 75c; postpaid, 80c.



SPRAY MATERIALS

All Round Spray

All Round Spray will sweep away your insect troubles. A Triple service product composed of the popular remedies for the three major classifications of pests. Effective, yet hardly more than the price of one.

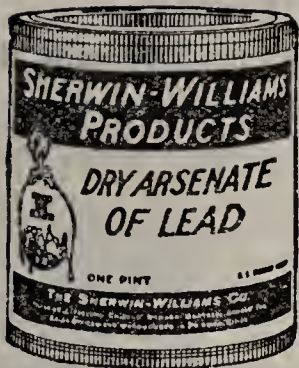
Nicotine Sulphate—to control sucking insects such as aphids (plant lice), thrip and leaf hopper.

Arsenate of Lead—to destroy the chewing insects, slugs, beetles, caterpillars, worms.

Bordeaux Mixture—to prevent blight and fungous diseases.

$\frac{1}{4}$ lb., 30c. Not mailable.





Arsenate of lead

Owing to unsettled conditions the quotations made on spray materials are not guaranteed. Write for price, stating size and quantity wanted.

Not mailable.

Dry Powder Arsenate of Lead may be mixed with water and applied as a liquid spray or it may be used as a dust spray. If applied as a liquid spray it is usually used 1 pound to 1½ pounds to 50 gallons of water. For potato beetles and other insects that are hard to kill use two to three pounds to 50 gallons of water.

½ lb.	\$0.20	4-lb. pkg.	\$0.75
1 lb. ....	.35	Case, 48 lbs.	9.00

Spreaders

What is known as a Spreader has been highly recommended the last few years to be used in connection with spraying, as it increases the adhesiveness of the spray and tends to give a more uniform coating, thus completely covering the surface.

Price, lb., 30c; add postage.

"NICO-FUME" Liquid is extensively used by leading florists, and without injury to greenhouse plants such as roses, carnations, lilies, chrysanthemums. However, owing to the variation in greenhouse methods and conditions throughout the country, we caution each purchaser to test "Nico-Fume" Liquid upon only a few plants before using generally, and not to use it upon those varieties of violets or other tender plants or blooms that are deleteriously affected by nicotine, nor upon hardy plants that are temporarily in a tender condition.

For Spraying—For Green Aphis, Thrips, etc., use one or two teaspoonfuls of liquid to each gallon of water. For more resistant plant lice, three or four teaspoonfuls to each gallon of water.

For Fumigating—One ounce (two tablespoonfuls) to each 4,000 cubic ft. of space, to furnish a strong fumigation. For extra strong fumigation, 1 oz. (2 tablespoonfuls) to each 2,000 cubic ft. of space. 1 lb., \$2.25; 8 lbs., \$10.00; add postage.



Against sucking insects, such as Green and Woolly Aphis, Pear Psylla, Grape Leaf Hopper, Pear Thrips, etc., 1 part "Black Leaf 40" to about 900 to 1,000 parts water.

Against more resistant plant lice, such as

Black Aphis and Rosy Apple Aphis, 1 part "Black Leaf 40" to about 500 to 700 parts water.

1-oz. bottle.....	\$0.35	2 lbs.....	\$3.35
5-oz. bottle.....	1.00	5 lbs.....	6.00
1-lb. bottle.....	2.25	10 lbs.....	8.60

Not mailable.

ATLACIDE NON-POISONOUS

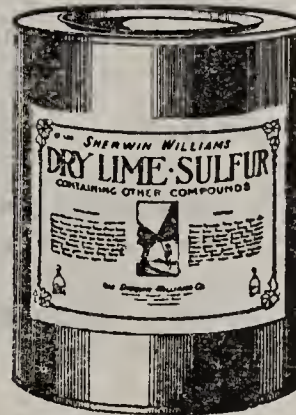
Atlacide Non-Poisonous Weed Killer Duster exterminates all undesirable vegetation including Poison Ivy, Canada Thistle, Johnson Grass, etc., without danger of poisoning humans or animals. Simply shake powder from can on the weeds and grasses to be killed, 100-lb. Drum kills 10,000 sq. feet of weeds. Put up in 3½ lb. cans. Perforated tops. Also in 50, 100 and 200 lb. drums. Ask for prices.

BORDEAUX MIXTURE

It stays in suspension well, adheres to the foliage and can be used in combination with Paris Green, Arsenate of Lead or other insecticides with an extraordinary degree of safety.

Not mailable.

1 lb., 35c; 4 lb. package, 75c.



DRY LIME SULPHUR

Containing Other Compounds

Not Mailable

1 lb.	\$0.30
5 lbs.	1.20
10 lbs.	2.10
25 lbs.	\$3.00
50 lbs.	5.75
100 lbs.	11.25

Directions: From ten to twelve pounds of Dry Lime Sulphur dissolved in fifty gallons of water should be used as dormant spray against scale, insects, etc. From two to three pounds to fifty gallons of water in combination with the usual proportion of Dry Arsenate of Lead should be used for summer spraying on all seed fruits, such as apples, pears, quinces, etc. From one to one and one-half pounds to fifty gallons of water in combination with the usual strength of Arsenate of Lead should be used for summer spraying of peaches, plums and all stone fruits.

Whale Oil Soap

A full strength liquid whale oil soap. Soluble in hard or soft water. Used as a spreader for Black Leaf 40 and other sprays. Pint, 35c; quart, 55c; gallon, \$1.75; 5 gallon can, \$6.60.



Paris Green

Poor Paris Green is dear at any price. Effective against all chewing insects.

Price, ¼s, 20c; 1s, 60c; 4 lbs., \$2.00.

Prices not guaranteed. Not mailable.



TWO TYPES OF INSECTS

There are two types of insects — chewing, which eat the leaves and blossoms; sucking, which suck the sap from leaves or stems.

EVER GREEN kills both chewing and sucking insects. The sucking insects must be killed by "contact." Chewing insects can be killed by spraying insecticides on the leaves that they feed on.

Non-poisonous. Non-injurious to plants, blossoms, foliage, poultry or livestock. Kills chewing and sucking insects.



1-oz. bottle	\$0.35	Postpaid \$0.45
6-oz. bottle	1.00	1.10
16-oz. bottle	2.00	2.10
32-oz. can	3.50	3.75
Gallon can	7.25	7.50

Safe delivery not guaranteed on glassware and liquids.

Hammond's Slug-Shot



For destroying slugs, cabbage and turnip flea, currant worms, etc. Lb. pkg., 25c; 5-lb. pkg., \$1.00; add postage.

Hammond's Grape Dust

To prevent mildew on roses, grapes and goose berries. Lb. pkg., 40c; 5 lb. pkg., \$1.50; add postage.

VOLCK

"Garden Volck" is a Volck-Nicotine combination spray that offers the home gardener as nearly complete a garden spray as can be put in one package. It is used to control Aphids, Thrips, Scale, Mealy Bug, Red Spider, White Fly, Lace Wing Bug, Cyclamen Mite, Greenhouse Orthesia, Leaf Miner, Squash Bug, Leaf Hopper, Small Caterpillars, Leaf Spot, Mildew, Rusts, etc.

3 oz., 35c; pint, 85c; gallon, \$4.50.



"Nursery Volck" is the high quality Mineral Oil Spray for general Nursery and Garden use. It is safe and effective. It is not to be confused with "Garden Volck" which contains Soap and Nicotine, but is recommended for the same pests as Garden Volck with the exception of Aphids, Thrips, Small Worms and Bugs. 1/2 pint, 35c;

pint, 55c; quart, 80c; gallon, \$2.00.

"Greenhouse Volck" is a special "Volck" for use on tender plants under lath or glass. It is exceptionally safe to tender foliage. Unusually effective against Mealy Bug. Also controls Scale, White Fly, Red Spider, etc. Pint, 55c; quart, 80c; gallon, \$2.00; 5 gallons, \$8.50.

Dormant Oil Spray

A High Viscosity—Highly Refined Dormant Oil

DIRECTIONS

For San Jose Scale, Oyster Shell Scale, Aphis and to prevent hatching of Brown Mite and European Red Mite, use 3 to 4 gallons to make 100 gallons spray—apply just before buds open.

As a dormant spray to control Brown Apricot and other soft shell scale use 4 gallons to make 100 gallons spray. Apply during winter after fall rains and before buds break.

For Italian Pear Scale use 5 gallons to 100, add caustic soda to cut moss, and apply freely.

For Leaf Roller Eggs use 8 gallons to 100 and apply as near hatching period as possible before buds open.

For Pear Mealy Bug and Pear Ssylla use 6 gallons to 100 and apply preferably in the fall after leaves are off.

For Tree Hoppers use 4 gallons to 100 gallons water. Spray while trees are dormant.

For Tarnish Plant Bug use 4 gallons to 100 gallons water. Apply as buds are swelling; if trees too far advanced for dormant strength, use 1 gallon Free Mulsion and 3/4 pint Nicotine Sulphate.

Where Moss is present, add 1 to 2 lbs. caustic soda to 100, and thoroughly soak the trees. Dissolve caustic soda in water before adding to spray tank.

Gallons, \$1.25, weight 10 lbs.; quarts, 50c, weight 3 lbs.; add postage.

Summer Oil Spray

A specially prepared Oil Emulsion designed for safe and effective use on Deciduous and Citrus Trees, Shrubbery and other plants to control certain Insect Pests.

Active Ingredients (Refined Hydro Oils).....75%
Inert Ingredients25%

DIRECTIONS

For Red Spider, Aphids, Scale Insects, etc., on shrubbery, Ferns, Potted Plants, Nursery Stock, Deciduous and Citrus Trees, use 1 quart to 12 gallons water, or 5 tablespoonfuls to 1 gallon. For Mealy Bug use 1 quart to 8 gallons water or 8 tablespoonfuls to 1 gallon.

Carefully cover all infested parts. Plants should be well watered previous to spraying. Have mixture well agitated and in complete solution.

Gallons, \$1.75, weight 10 lbs.; quarts, 60c, 3 lbs.; pints, 40c, 2 lbs.; add postage.

Tobacco Dust

For green and black aphids, fleas, beetles.

1 lb.	\$0.15	50 lbs.	\$4.25
10 lbs.	1.25	100 lbs.	7.50
25 lbs.	2.50	Add postage.	

All quotations on spraying material subject to change. If you want a quantity write for prices.

Respirators

For comfortable protection at dusty work, such as handling dry chemicals, dry colors, facing, plaster, fertilizer, metallic powders, soap powders, and other dusty material.

Price, \$1.75; postpaid, \$1.85.

Filters, or sieves for respirators, lot of 100, \$1.25.

Insecticides, Fungicides

As the use of insecticides and fungicides are beyond our knowledge and control and involving elements of risk to vegetation, we do not make any warranty, expressed or implied, as to the effect of such use whether or not used in accordance with directions or claims so to be.

Write for prices, stating size wanted, as following quotations are not guaranteed.

Bluestone

Used successfully in winter sprays, also used largely for the treatment of wheat to prevent smut. Lb., 15c, add postage—use one pound to 5 gallons of water. If wanted in 100-lb. or barrel lots, market price.



Ceresan

Barley — Stripe and covered smut are usually eliminated by the use of this simple dust treatment. Ceresan is the first satisfactory dust disinfectant available for the control of these barley diseases.

Oats — Excellent control of loose and covered smuts may generally be obtained by seed treatment with Ceresan.

Wheat—Ceresan is very effective in the control of bunt or stinking smut and is recommended for the control of seed-borne flag smut.

For wheat and rye, use 2 ounces per bushel of seed. For oats and barley 3 ounces per bushel of seed.

1-lb. tin	\$.75	100-lb. drum	\$ 49.00
5-lb. tin	3.00	300-lb. drum	144.00
25-lb. tin	12.50	Not available.	

Copper Carbonate 54-55%

Copper Carbonate possesses every requisite physical and chemical quality to insure maximum results. By analysis it shows:

Copper	54-55%
Equivalent to Basic Copper Carbonate.....	97-98%
Inert	2- 2%

Two ounces per bushel is sufficient to insure full coverage.

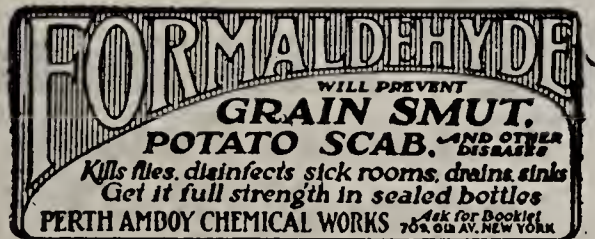
Avoid inhaling the Copper Carbonate dust. The treated grain should not be fed to chicken or livestock.

5-lb. pkg.	\$1.50	200-lb. barrel	\$50.00
10-lb. pkg.	2.85	Not available.	

COPPER CARBONATE 18%

5-lb. package, \$1.00. Not available.

Quotations not guaranteed. Ask for prices, stating amount wanted.



Directions

BARLEY—Put one pint in 40 gallons of water, dip barley in loose gunny sacks, soak for two hours; spread out and dry after draining.

OATS—Use one pint in 10 pints of water. This quantity, 11 pints, will treat 55 bushels.

POTATOES—Use one pint to 15 gallons of water. Heat solution 118 degrees to 122 degrees Fahr. in tank with heater. Dip uncut potatoes for two minutes either in sacks or crates, then cover with canvas for an hour.

WHEAT—Put one pint in 40 gallons of water and follow directions given for barley.

Price: Pints, 50c; quarts, 90c; gallon, \$3.00; 5-gallon can, \$14.00. Pints and quarts packed in glass. Gallons in glass or jugs. Packed carefully but safe delivery not guaranteed. Not available.

Semesan

For most flower and vegetable seeds use one ounce of Semesan to each 15 pounds, but to dust field crops use two ounces per bushel for the

large varieties of seeds or three ounces for the small kinds.



2-oz. tin	\$0.50
8-oz. tin	1.60

Not available.

This modern disinfectant comes in dust form and can be applied to control a most diversified variety of parasitic diseases and fungoid growths borne by seeds, plants, grafts and soil. Semesan is harmless to seed and plant life but extremely poisonous to disease and fungous organisms.

1-lb. tin	\$ 2.75
5-lb. tin	13.00

Improved Semesan Bel



In six farm tests Semesan Bel gave an average yield increase of 35.4 bushels. The untreated averaged 259.9 bushels, the treated 295.3 bushels.

Disease steals your potato profits by decreasing the yield and lowering the market value. Your profits can be greatly increased by using Improved Semesan Bel. Thirty-five and four-tenth bushels of potatoes an acre is the average increase in yield secured in demonstrations with Improved Semesan Bel on six practical farms in Maine, Minnesota, Ohio, Pennsylvania, and New York.



An illustration of Semesan Bel's effectiveness in seed-piece preservation: Untreated—38% rotted and 62% sound seed pieces. Semesan Bel treated—7% rotted and 93% sound seed pieces.

Rhizoctonia and seed rotting are responsible for a large portion of yield losses, while Rhizoctonia and scab account for lowering of market value. These needless losses can be largely prevented by treating the seed, before planting, with Improved Semesan Bel. In addition to killing seed-borne diseases Improved Semesan Bel protects the seed pieces from rotting under cold, wet

soil conditions, assuring better stands and larger yields.

Dry seed potatoes may be most conveniently disinfected before cutting by gently rolling them and the Semesan dust together in a barrel or other cylindrical container for three to five minutes or until the tubers are thoroughly coated.

4-oz. tins	\$0.50	25-lb. pail	\$ 31.25
1-lb. tins	1.75	100-lb. drum	120.00
5-lb. tin	8.00	Not mailable.	

SEMESAN JR.—Is a dust disinfectant used for the ear, root and stalk rots of field and sweet corn. By dusting seed corn with Semesan Jr., these diseases are controlled and yield increases are made possible.

It is used at the rate of 3 ounces per bushel of seed.

4-oz. tin	\$0.40	5-lb. tin	\$7.00
1-lb. tin	1.50	Not mailable.	

Ant and Roach Powder

This fast-killing Ant and Roach Powder is manufactured by The Antrol Laboratories. It is put up in attractive, handy shaker cans, and has proved to be very effective. 2-oz., 15c; postpaid 20c. 4-oz., 25c; postpaid, 30c.

Ant Destroyer

Antrol

The containers are partially filled with syrup and then placed about the outside edges of the house. Ants smell the mildly poisonous syrup, eat it and then transmit it to their queen. Soon the entire ant nest is destroyed.



Prices—Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, 75c; postpaid, 85c. Antrol syrup, 4-oz. bottles, 20c; postpaid, 30c. Antrol syrup, pint bottle, 50c; postpaid, 60c. Antrol empty bottles, each, 15c; postpaid, 20c.



Ready Filled Antrol Set

Ready-filled Antrol Set—consisting of four patented glass "feeders" filled with regular Antrol Syrup. Set, 45c; postpaid, 55c.

RODENT DESTROYERS

Cyanogas

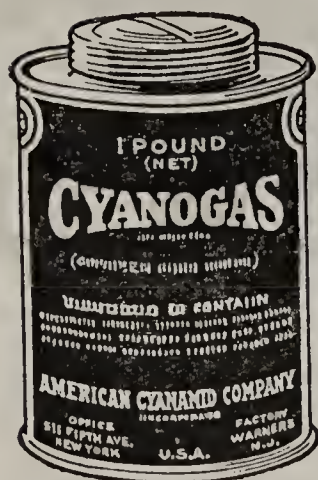
Prices not guaranteed on any rodent destroyer. Kills by giving off gas on exposure to the moisture in the air.

The residue after the gas has escaped is largely ordinary slaked lime, which is harmless to stock.

CYANO GAS—For controlling Ants, Rats, Moles, Fleas, Gophers, Sage Rate, Prairie Dogs, Ground Squirrels, Wireworms, Snails, Slugs, Grape Leaf Hopper.

Granular—1 lb., 75c; 5 lbs., \$2.00; 25 lbs., \$6.00; 100 lbs., \$20.00.

A-Dust—1 lb., 75c; 5 lbs., \$2.50; 25 lbs., \$6.00; 100 lbs., \$20.00.



Cutworm Killer



Snarol

A ready prepared meal for cutworms, snails, slugs, sowbugs, grasshoppers, earwigs, etc. It is sprinkled around plants and shrubs, where the pests eat it and are quickly killed. Will not deteriorate with rain and is non-injurious to vegetation.

1½ lb. package, 25c; not mailable.

4 lb. package, 60c; not mailable.

15 lb. package, \$2.00; not mailable.



For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries. Quart, \$1.25, weight 4 lbs.; add postage.



Kill Rats Without Poison with K-R-O

Won't Kill Livestock, Poultry, Dogs, Cats or even Baby Chicks.

Owing to the fact that K-R-O is harmless to human beings and animals it can be forwarded by mail. Price, 75c; postpaid, 85c.



MOUSE SEED

(HOUSEHOLD-NO. 1 PAT. OFF.)

Kills Mice!

Mouse Seed can be used without bait, without traps, without muss.

Mouse Seed is real seed—that kills mice. It attracts them wherever it is left.

Pour a pile of seeds out of the package on a saucer. The mice, attracted by the flavor, will gnaw the kernels, leaving the husks.

Oz. packages, 25c; postpaid 30c.



Woodlark Squirrel Poison

Requires no mixing preparation—always ready for use. When you buy demand the best. Get the "Woodlark" brand. Lb., 40c; 10 lbs., \$3.50. Not available.

Orchard Supplies

Desire to draw your attention to the effect that owing to unsettled conditions, the quotations made on orchard supplies are not guaranteed, and this applies to all quotations in catalog.

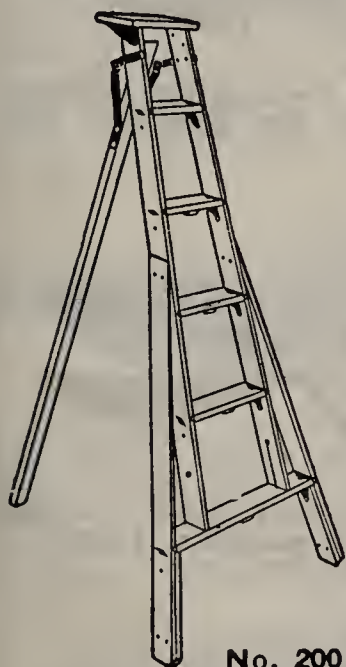
FRUITLADDERS

The Northwest is the old standby for fruit pickers because it is light and stands solid. No side swaying. The construction is so it braces each way from the heavy steel head block to the bottom braces, riveted to the sides and bottom steps. Brace rods under each step, with long washers. The third leg is all riveted to top, sides and head board. No bolts or nails to work loose.

Clear spruce, which is light and strong, in each ladder.



No. 60



No. 200



No. 70

No. 60—6 and 8 feet as per cut; 10 and 12 feet, same ladder with side extensions. 55c per foot.

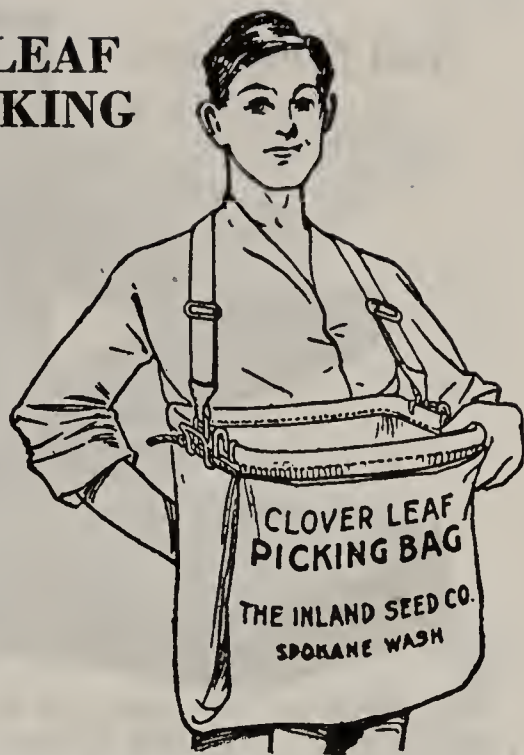
No. 200—10 and 12 feet, as shown in cut; 6 and 8 feet, same ladder without side extensions. Price, 65c per foot; 14 foot, 70c per foot.

No. 70—8, 10 and 12 feet. 70c per foot.

CLOVER LEAF FRUIT PICKING BAG

The Clover Leaf Picking Bag is constructed of heavy canvas with a spring steel frame at top. The lower end of the bag folds squarely back to the steel frame at the top. The lower portion of the sack being held securely by means of an ingenious fastener. To empty bag release the string and deposit fruit in box.

Price, \$1.75. Weight, 3 lbs. Add postage. Price subject to change.

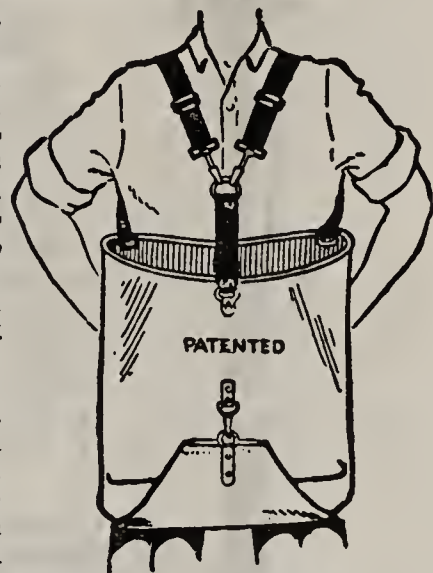


INLAND FRUIT PICKING BAG

The mouth of the bag is always open, being constructed with a novel shaped metal frame so that the hands of the pickers can go with the fruit to the bottom of the bag. Bottom of the bag is opened instantly by the snap and fruit is emptied out without bruise or injury.

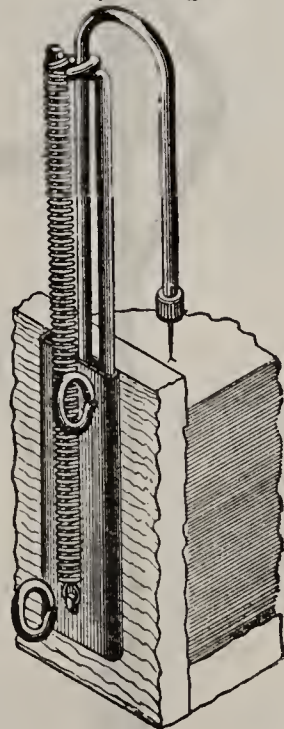
When snapped at top loop the bag will hold one-half bushel; when snapped at bottom loop as shown in cut the bag will hold about a bushel.

Price, \$2.00. Weight, 3 lbs. Add postage.



Paper Holder

A model of simplicity, handiness and usefulness. Saves paper and increases the speed of the user. An all-purpose holder and a necessity for every fruit packer. Holds from one to 1600 wraps. Neat, rust-proof and lasting. Folds up and can be carried in pocket. Price, \$1.00.



LID PRESS

Special features of the Edgemont Lid Press: The stripper nail box delivering the nails all pointed down; the placing of the lids in position endwise by the clamping yoke; the spring attachment holding the cleat in place, all tend to make nailing easy, quick and simple.

Price, \$15.00. Price subject to change.

Nail Strippers



Self feeding. No time lost in keeping full. Adjustable. Handles all size nails from 2 d. to 10 d. Smith's (cut). Price, \$10.00. Weight, 8 lbs. Add postage.

PRUNERS
Bastian Pruner

The powerful lever of the Bastian Pruner enables one to do the same work in half the time and with half the labor that would be required with old-style Pruner.

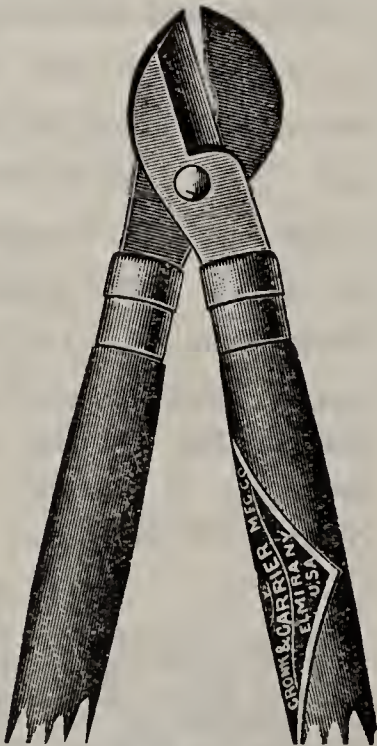
Blades are of finished Damascus steel, very strong, and hold their cutting edge. Simple in construction, light, strong and durable.

Feet	Price
6	\$1.75
8	2.00
10	2.25
12	2.50
Handle slides	30c
Blades	35c
Blade Screws	15c
Poles for 8 foot.....	80c
Poles for 10 foot.....	90c
Poles for 12 foot.....	\$1.00

Cronk's Pruners

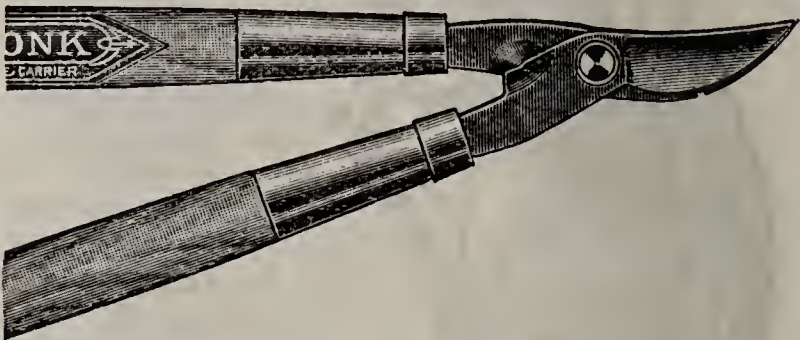


Bastian Steel ferrule. Notched hook (patented), pre-



No. 9 1/2.

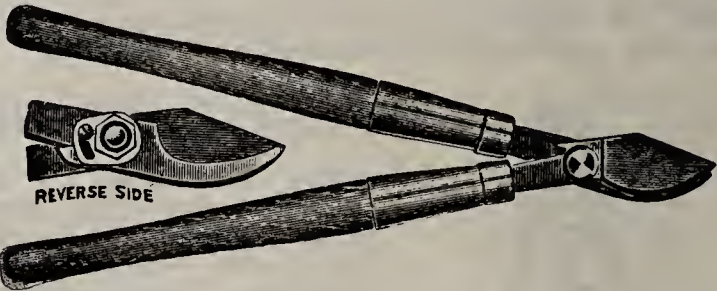
vents slipping, gives greater leverage, and makes cutting easier. No. 9 1/2, 22-inch handle. Weight, 3 lbs. Price, \$1.50; add postage.



Blades and hooks forged from special selected quality tool steel and tempered. Handles natural finish with 4-inch steel ferrule and cap finished in black enamel.

No. 326—20-inch handle; weight 3 lbs. Price, \$2.25. No. 330—24-inch handle; weight 4 lbs. Price, \$2.50. Add postage.

Pruner handles with ferrule, 20-inch, 50c; 24-inch, 55c; 30-inch, 60c each; weight 3 lbs. Add postage.



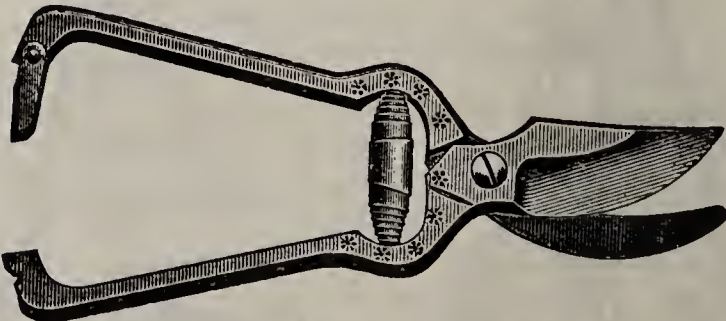
FRESNO PATTERN—Forged from high grade tool steel, finely tempered. Solid wrought steel ferrule. Has lock nut and can not work loose and ruin the shears. Riveted handle. Strictly high grade and has no equal.

No. 126—20-inch handle, weight 3 lbs. Price, \$2.00 No. 130—24-inch handle, weight 4 lbs. Price, \$2.25 Add postage.

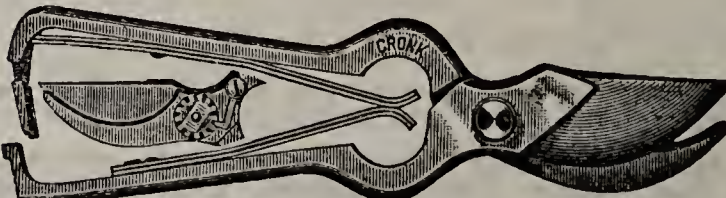
HAND PRUNERS



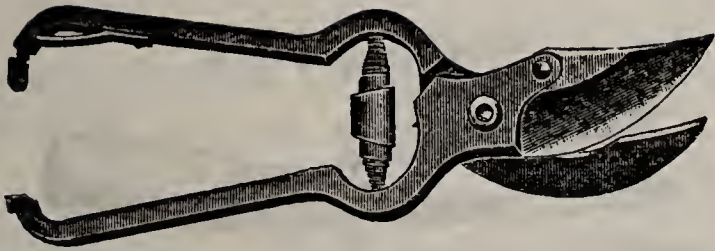
No. 17—Length, 9 inches. Detachable polished tempered steel blade. Price, 75c; postpaid, 85c.



250—Forged from best cutlery steel. Nickel plated, 7 inches. Price, \$1.25; postpaid, \$1.35. Known as Rose or Ladies' Pruners.



600—Forged from best cutlery steel, full polished, 8 1/2 inches. Price, \$2.00; postpaid, \$2.10.



117RBS—Length, 9 inches. Detachable blade of cutlery steel. Notched hook, forged from tool steel, full polished and tempered. Price, \$1.50; postpaid, \$1.60.

Springs

Volute springs for hand prunes. Each, 15c.
Volute springs for No. 203. Each, 15c.
Springs for No. 101. Each, 15c.

Grape or Thinning Shears



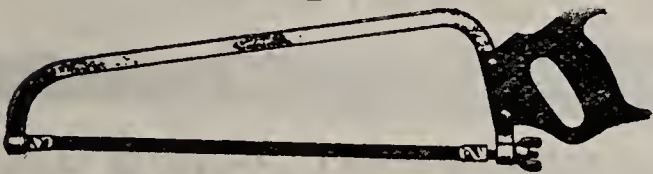
101—Length, 6½ inches. Made extra heavy. Price, 45c; postpaid, 50c.



203—Same as 101, but longer and has volute spring. Price, 50c; postpaid, 55c.

Saws

No. 10 Tapered Pruner



The frame is made of high quality spring steel, ⅝ of an inch wide and ¼ in. thick. The blade is 13½ inches long. The handle is fastened to the frame by two brass screws. Blade is adjustable so that the saw will cut at any angle. Length of saw frame, 16 inches. Price, \$2.50; postpaid, \$2.60. Extra blades, 40c; postpaid, 50c.

No. 1 Atkins Table and Pruning Saw



The blade tapers from 2⅝ inches to 1 inch, and is made of the finest steel that has ever been used in saw blades. The handle is of hardwood. Blade is 14 inches long. Price, \$1.75; postpaid, \$1.90.



No. 4

The blade is heavy-gauge and is made of High-Grade Special Steel. The handle is of thoroughly seasoned hardwood, fastened to the blade by three brass screws and a medallion. Blade 20 inches. Price, \$1.85; postpaid, \$2.00.

No. 18 Folding



This is similar to the No. 13, except it is supplied with a folding handle. Peg teeth pitched back so as to be right angle at cutting edge. Blade 14 inches long. Plain sanded beech handle. Nickel screw. Price, \$1.45; postpaid, \$1.55.

No. 13 California Pruner



The blade is of the finest quality Silver Steel which is superior to any other sawsteel. The curved blade makes cutting easy. The handle is of highly finished applewood. Blade is 14 inches long. Price, \$1.40; postpaid, \$1.50.



For use on trees, shrubbery, etc., to stop bleeding of sap after pruning, and prevent worm-boring. Used extensively by large nurseries and fruit growers.

Directions: Best results are obtained by applying Pruning Compound at the time pruning is done.

Quarts, 75c; gallon, \$2.50. Not mailable.

Tree Tanglefoot

To protect trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One application remains sticky three to four months fully exposed to the weather. Easily applied with a wooden paddle. One pound makes a band 8 to 9 feet long. No mixing, always ready for use.

Net Wt.	Gross Wt.	Price
1 lb.	1¼ lbs.	\$0.60
5 lbs.	5½ lbs.	2.50

Add postage.

Grafting Wax

¼ lb., 20c, postpaid, 25c; ½ lb., 35c, postpaid, 40c; 1 lb., 60c, postpaid, 70c.

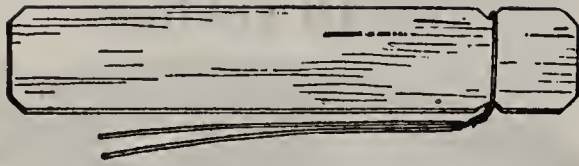
Raffia

Natural color, for nursery work 1 oz., 10c; ¼ lb., 30c; ½ lb., 50c; 1 lb., 85c; postpaid.

Labels

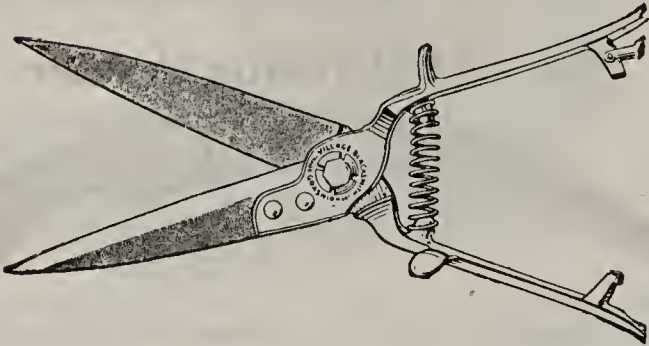


	Size	100	500	1000	Weight Per 1000
Pot, painted	4x⅝	\$0.25	\$1.00	\$1.75	5 lbs.
Pot, painted	5x⅝	.30	1.25	2.25	6 lbs.
Pot, painted	8x⅝	.60	2.50	4.50	10 lbs.
Pot, painted	10x⅝	.85	3.75	6.50	12 lbs.



Tree, painted, copper wired..... $3\frac{1}{2} \times \frac{5}{8}$.35 1.25 2.25 6 lbs.
Add postage.

Grasnip



NO. 1—Full polished, hollow ground, hardened, 6-inch blades, red enameled handles. Price, 90c; weight 2 lbs.; add postage.

NO. 3—Six-inch polished blades, hollow ground, blue enameled handles. Price, 65c; weight 2 lbs.; add postage.

Grass Shears



NO. V52—With Trowel shank. Cutlery steel. 6-inch blade. Green enameled spring with full polished handles and cutting edges. Price, 75c; weight, 1 lb.; add postage.

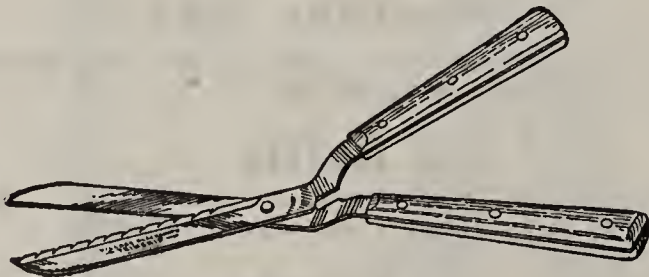
NO. V2—Green enameled handle and spring. Full polished edges. With straight shank. Price 60c; weight, 1 lb., add postage.

Grass Hook

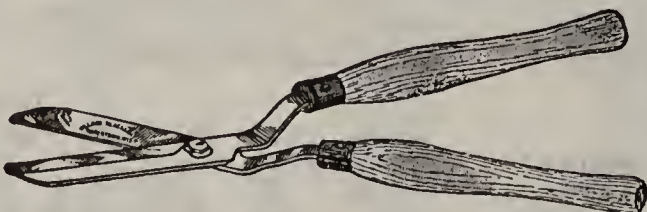
Patented offset. Forged cutlery steel. Tempered, ground sharp and whetted. Oil finish maple handle. Price, 60c; weight, 2 lbs.; add postage.

Hedge Shears

NO. 880—A malleable tang shear, cutlery steel, serrated edged blades riveted to handle; length of blade cut, 8 inches. Price, \$2.50; weight, 3 lbs.; add postage.

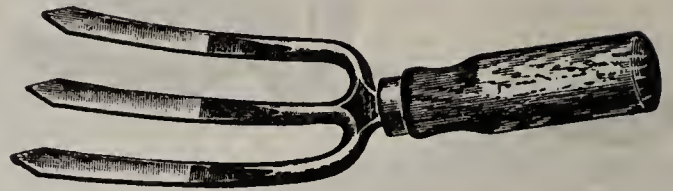


NO. ST08—Sawtooth, 8 inch blade, very reliable. Price, \$2.25; weight, 3 lbs.; add postage.



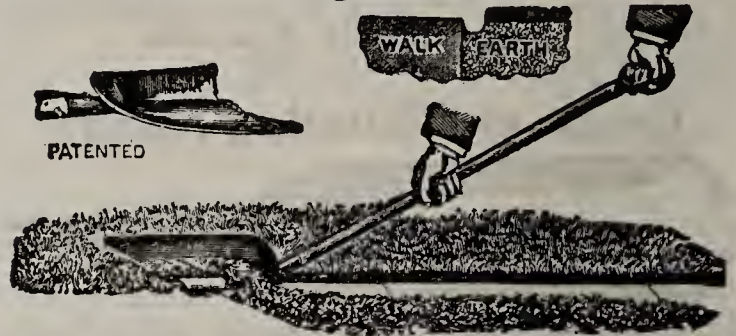
NO. 600—A light shear, riveted handles, 6-inch blade. Price, \$1.50; weight, 2 lbs.; add postage.

Spading Fork



Fine garden tool, 11-inch malleable. Each, 50c; postpaid, 60c.

Lawn Edge Trimmer



With this tool the rough, straggling, overhanging grass along the edges of the walk can be trimmed in a few minutes.

Price, \$1.50. Weight, $3\frac{1}{2}$ lbs. Add postage.

Asparagus Knife



Has long shank and blade for cutting the tips below the surface. Length over all, 15 inches. Octagon tool steel tempered.

Price, 40c; postpaid, 45c.

CORN KNIFE



No. 6 SPECIAL STEEL—Length of blade, 15 inches. Width at end, 3 inches. Length over all, $21\frac{1}{2}$ inches. Number of rivets, 3. Weight, 2 lbs. Price, 60c; add postage.

Berry Hallocks

Strawberry self-folding hallocks are tied in bundles of 250, and are known as deep, full-sized pints. Weight, 16 lbs.

Raspberry hallocks are also self folding and tied 250 in bundle, full pints but are known as the shallow type. We do not break bundles of either hallocks. Weight, 16 lbs.

Price of both, \$1.50 per bundle, or \$5.00 per M. and subject to change. Add postage.

BASKETS

Please note the construction of the basket here shown and you will readily see that the different wires are electrically welded together, thus forming a solid construction, making all parts equally durable, and thus making it impossible for it to fall apart.



10-inch, 20c; $\frac{1}{2}$ doz., \$1.15; doz., \$2.00; wt. 5 lbs.
12-inch, 25c; $\frac{1}{2}$ doz., 1.50; doz., 2.75; wt. 7 lbs.
14-inch, 40c; $\frac{1}{2}$ doz., 2.25; doz., 4.25; wt. 10 lbs.
16-inch, 60c; $\frac{1}{2}$ doz., 3.25; doz., 6.00; wt. 14 lbs.

Celery Tape

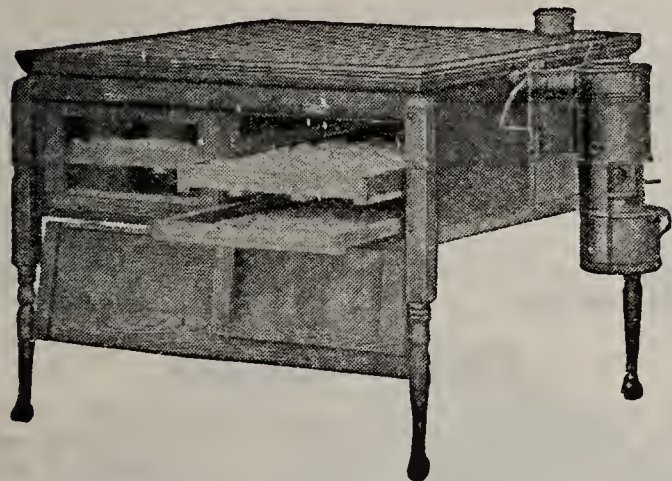
Put up in spools of 1,000 yards. Color, red and green.

Price, \$4.00; weight, 3¾ lbs; add postage.

Tin Tops

Packed 500 in crate. 3-lb. size, \$15.00 per M; 5-lb. size, \$16.00 per M. Prices subject to change.

Poultry Department



Queen Incubators

Provides uniform heat over egg chamber that is most natural for the hatching eggs.

The Queen is doubly insulated. First, double Walls of California redwood is used, thus forming a dead air space. Second, corrugated straw-board is used between the wooden walls.

Boiler and radiator of the Queen heating system is made of copper (not copperized tin), and placed close to the inner top of the incubator.

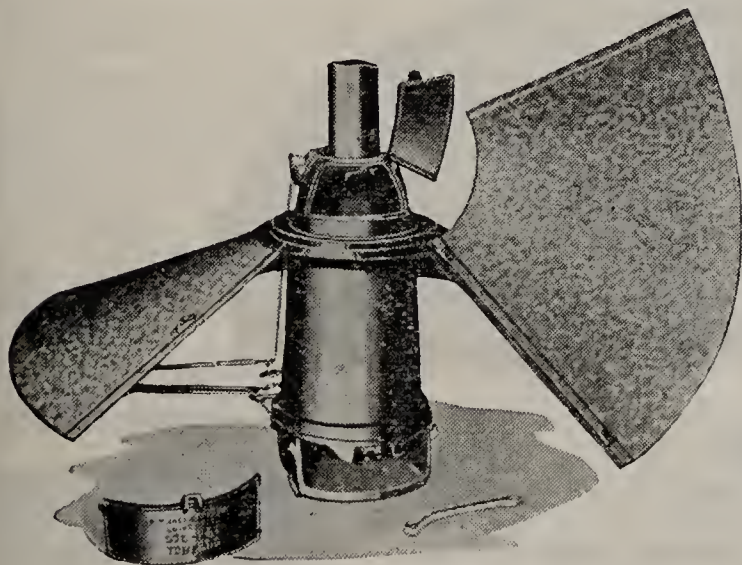
No. 3—180-egg size.....	\$25.00
No. 4—275-egg size.....	30.00
No. 5—400-egg size.....	35.00
No. 25—600-egg size.....	50.00

Style K Incubator

No. 20— 70-egg size.....	\$10.00
No. 21—130-egg size.....	15.00

Style K Incubators are constructed of double wall redwood. The top of the machine is re-lined with insulation. The heater and pipes are made of aluminoid. The machine is equipped with the same expansion cup and thermometer as the regular Queen.

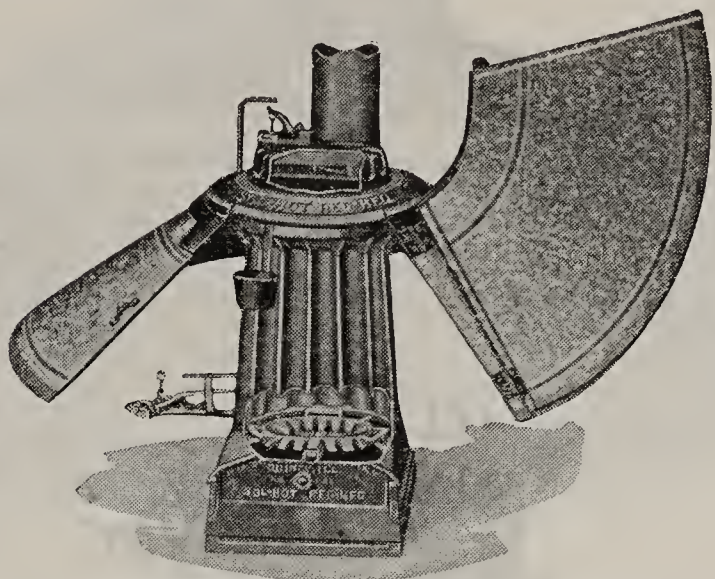
BROODERS



The "Torpedo" ball bearing shaker grates mean clean burning fuel and even temperature maintenance. "Torpedo" features include large

capacity fire pot, patented improved draft intake, special cold air check damper, large fuel door.

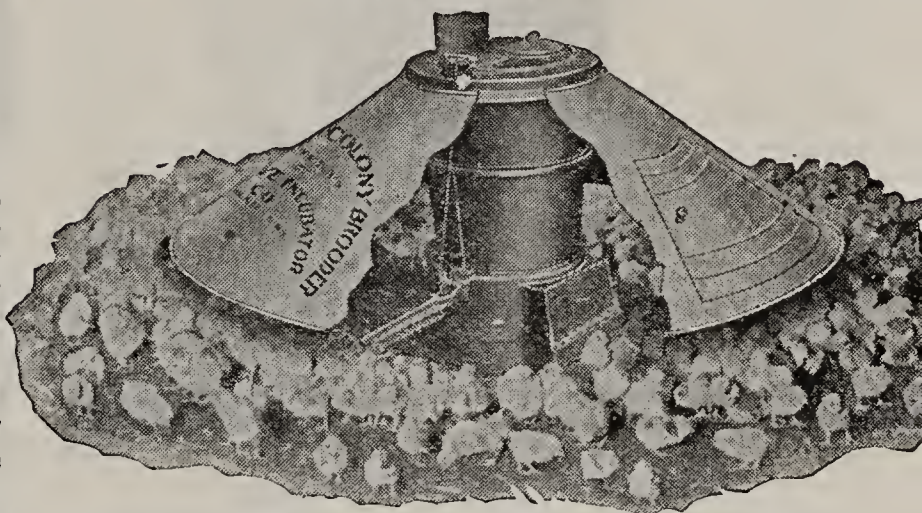
Canopy	Coal Capacity	Grate	Ship Wt.	Price
56 in.	54 lbs.	11½ in.	130 lbs.	\$20.00
66 in.	60 lbs.	12¾ in.	150 lbs.	\$22.50



The RED-HEAD with its patented full section Hinged Door makes it easier to fuel at the top—easier to handle and operate. Its patented canopy can be instantly removed without taking down stove pipe—it rotates around stove at any height, making it easy to get at any part of stove or chicks. Canopy can be instantly raised or lowered without ropes or pulleys.

58-inch canopy	\$25.00
68-inch canopy	29.00

BUCKEYE



Buckeye Coal-Burning Brooders are all equipped with the Buckeye non-clogging grate that insures positive feeding of the coal and prevents fire going out as long as there's a pound of coal to burn.

The Double Check Draft that acts instantly when more heat or less is required.

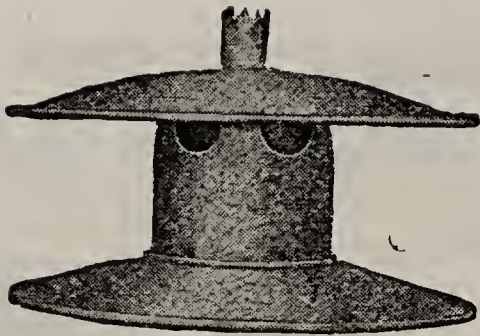
The Buckeye Thermostat Heat Regulator takes the gamble out of brooding by automatically keeping the fire just right.

Canopy, 60 in., wt. 150 lbs.....	\$22.50
Canopy, 56 in., wt. 109 lbs.....	20.00
Canopy, 52 in., wt. 95 lbs.....	17.50



LITTLE PUTNAM STOVE

Burns 3 to 4 weeks without refilling or other attention. Wick never needs trimming. For heating water it can be used with a can, crock or fountain. Non-explosive—if tipped over or buried in litter it will go out. Postpaid, \$2.00.



PUTNAM BROODER HEATER—You can make your own brooder for accommodating 25 to 60 chicks. Heater requires filling but once a week. Uses less than a gallon of oil a month. Heat radiates from above onto backs of chicks. Can be operated anywhere. Directions for making brooder enclosed. Price, \$4.90, postpaid.

Oil Burners



The **AIR BLAST** will keep your brooder house warm in any weather. By partitioning your brooder house with wire netting, you can have

chicks of all ages in your brooder house at one time. So perfect is the Automatic Thermostat Control that it can be turned down so that the flame is no larger than you would burn in a house lamp, or it can be turned up to produce sufficient heat to keep the brooder house comfortable in zero weather. Stove pipe not furnished. Order elbow and 4-inch stove pipe if wanted.
Price — Brooder, \$20.00. Elbow, 50c. Stove Pipe, 30c. Extra 5-foot lengths of copper tubing to go between oil container and float valves with couplings, 75c each.

SOL-HOTS, COMPLETE

Canopy	Price	Weight
24-inch	\$9.00	29 lbs.

CANOPIES

24-inch	\$3.00	12 lbs.
34-inch	4.00	20 lbs.
44-inch	5.00	25-lbs.

HEATERS

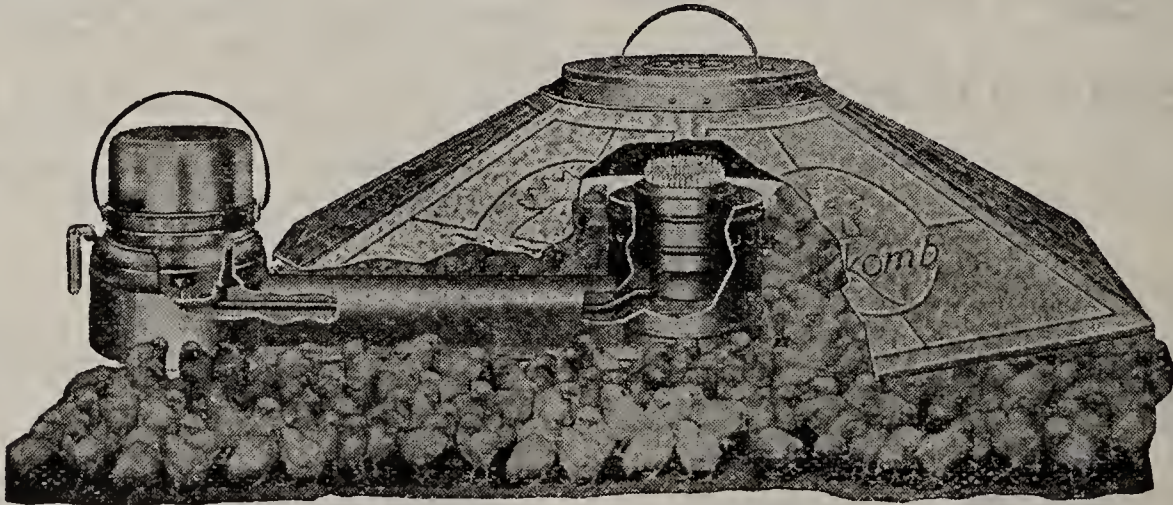
34-inch	\$4.00	18 lbs.
44-inch	5.00	20 lbs.
54-inch	6.00	24 lbs.

Add postage.

Pipes—Elbows

No pipes or elbows furnished with stoves. Order as many lengths of pipe as you need, also elbow if needed, and add to price of stove.
When ordering pipe, caps, elbows or roof plates, be careful and specify exact size wanted. Our 3 to 4 inch pipe is 3 inches at one end and 4 at the other. This rule applies to other sizes of pipes.
3-inch pipe, 25c. 3-inch elbow, 50c.
3 to 4-inch pipe, 30c. 4-inch elbow, 50c.
4-inch pipe, 30c. 5-inch elbow, 60c.
4 to 5-inch pipe, 30c. 6-inch elbow, 70c.
5-inch pipe, 30c. 3-inch cap, 50c.
5 to 6-inch pipe, 30c. 4-inch cap, 50c.
3-inch roof plates, 60c. 5-inch cap, 60c.
4-inch roof plates, 75c. 6-inch cap, 70c.
5-inch roof plates, 90c.
The new improved Sol-Hot embodies the fundamental principles that are absolutely necessary in a heater for the successful hatching and rearing of chicks. It is the one heater on the market that is absolutely automatic. Once the burner is lighted it cannot go out as long as there is oil in the oil supply tank.

Simplicity Oil Brooder



Stands alone in construction, appearance and ease in operation. In the field of burners unequipped with thermostatic control, it stands so high that all others are judged by it. In the simplicity the flame is automatically maintained where desired without the aid of unreliable valves or sliding joints. The control is simple and cannot wear out.
The 52-inch canopy is equipped with a 5-inch

giant burner, a guarantee against weather troubles.
Canopy Price Weight
55-inch

\$11.00 51 lbs.
Add postage.
Glass Oil containers for Simplicity Brooder, \$1.50. Must go by express. Safe delivery not guaranteed.

The improved MaKomb Ker-O-Stat Automatic Oil Brooder holds absolute leadership in efficiency and value. The infallible Safety Pilot Light and full Thermostatic Control make it completely automatic, with no danger of the flame ever going out. Heat generation on warm days is eliminated, but the pilot light relights the burner the minute the weather gets cooler.

The Ker-O-Stat has no wick to trim. No smoke or fumes. A heavy steel shell and closely woven heavy wire screen guard the burner. A deflecting pan above and a shield below the burner save fuel and insure safety. A long inner tube gives the burner an unusual flame range. Wire-woven asbestos rings light easily without dangerous gasoline priming.

Canopy	Price	Weight
35-inch	\$11.00	40 lbs.
45-inch	13.00	45 lbs.
55-inch	14.50	50 lbs.

Add postage.



MaKomb Ker-O-Stat

Electric Brooders



Sol-Hot Electric Brooders

The Sol-Hot Electric Brooder Thermostat has the thermometer and temperature control mounted together. The control is magnetic, and gives instantaneous make and break of circuit.

The consumption ranges from 250 watts on the 34 in. up to 500 watts consumption on the 64 in. canopy when turned on. This means quick recovery from heat losses under the brooder.

No.	Canopy	Price	Weight
2	44 in.	\$15.00	46 lbs.
3	54 in.	17.50	53 lbs.

Add postage.

"Tycos" Incubator Hygrometer

"Tycos" Incubator Hygrometer is not a regulator of moisture, but is an indicator of conditions, so that if not correct, they may be made so. Each, \$1.75; postpaid, \$1.85. Hygrometer wicks, each 25c.

We pack thermometers and all glassware in as safe a manner as possible, but will not be responsible for their safe delivery, owing to the great risk of breakage.

Egg Tester

It is designed for use on an ordinary hand lamp. In a dark room the light will be strong enough to penetrate the shell and illuminate the interior of the egg. Price, 45c; weight, $\frac{3}{4}$ lbs.; add postage.



Day Old Chicks



We have made arrangements with one of the best hatcheries in the West to supply us with day-old chicks.

Send orders and remittance direct to us, giving date when wanted. It is advisable to place your order as early as possible. Should there be any dead ones, count the live chicks, as this Hatchery usually puts in some extra. Hatchery reserves the right to send by express or parcel post. Chicks forwarded by boat, stage, or to prepay stations are sent at purchaser's risk.

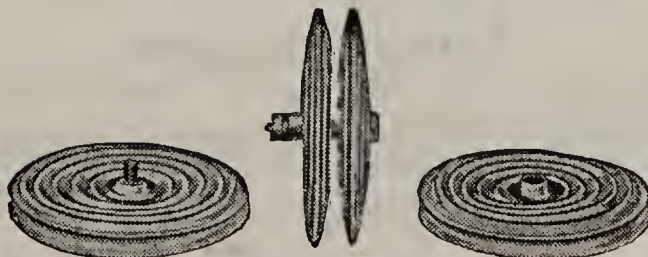
As our catalog goes to the printer we are unable to quote prices, as the code covering hatcheries has not yet been approved, but you can rest assured that our price will conform to the new code and that we will have the standard breeds.

Petty's Poultry Punch



Latest, most convenient Poultry Punch; will not clog. Thoroughly practical. Postpaid, 25c.

Wafer Thermostats



Wafer Thermostats are made of two round concave discs, sealed together at the outer edge. The cavity between them is filled with a volatile liquid which is sensitive to changes in temperature.

3, 4 and 5 inch sizes with thread connection on lower side and beveled place on upper side,

also same with solid point on lower side. All thermostats double brass.

3 inch	\$0.40	Postpaid	\$0.50
4 inch .....	.65		.75
5 inch .....	.90		1.00

Lamps



Inland Safety
Brooder Lamp.

No. 8 Brooder Lamp. The Inland Safety Brooder lamp requires no chimney; never smokes, burns a steady flame. Top of lamp is made to hold water, and it is essential to keep water there owing to heat being reflected back upon the lamp. Weight, 2 lbs. Height of bowl, 4 1/4 inches; diameter, 7 1/4 inches.

Price, complete with burner and wick, \$2.00; postpaid, \$2.10.

No.	Burner	Height Bowl Inches	Diam. Bowl Inches	Price
2	2	2 5/8	7	\$1.75
3	3	3 1/4	8 1/4	2.00
4	32	3 1/4	8 1/4	2.00

Lamp Bowls

For 3 Burner.....\$1.25
For 2 Burner..... 1.25

Add 10c for postage on lamps and lamp bowls.
If chimney wanted for any of the above, add 50c.

Lamp Burners

No. 2 Sunburner. Price, 60c; postpaid, 65c.
No. 3 Sunburner. Price, 75c; postpaid, 80c.
No. 1 Zenith, no chimney, 3/4 inch wick. Price, 60c; postpaid, 65c.
No. 2. Zenith, no chimney, 1 inch wick. Price, 75c; postpaid, 80c.
No. 32, 3 1/4 inch chimney, 1-inch wick. Price, 60c; postpaid, 65c.

Lamp Chimneys

Chimney, 2 1/4 x 5 inches, for No. 2 burners. Price, 50c; postpaid, 60c.
Chimney, 3 1/4 x 6 inches, for No. 3 burners. Price, 50c; postpaid, 60c.
Chimney, 3 1/4 x 3 1/4 inches, for No. 32 burner. Price, 50c; postpaid, 60c.

Lamp Collars

For No. 2 burners, 10c each.
No. No. 3 burners, 15c each.

Lamp Wicks

No. 1, 2, 3, 5c each; 50c dozen.

LEG BANDS



Champion

This aluminum band is made in one piece, adjustable to fit any fowl. Held by double lock, cannot come off.

12 Bands numbered 1 to 12.....	\$0.15
25 Bands numbered 1 to 25.....	.25
50 Bands numbered 1 to 50.....	.40

TURKEY BANDS

12 Bands numbered 1 to 12.....	\$0.25
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Sold only in full packages.



Spiral

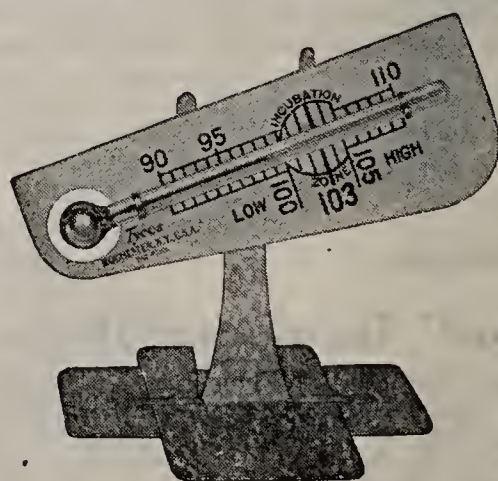
Made like a key ring, easy to put on. Birds identified easily on account of the different colors. Carried in white, green, black and pink for the following breeds: Asiatics—Brahma, Orpington and Langshans. Americans—Plymouth Rocks, R. L. Reds and Wyandottes. Mediterranean—Leghorns, Minorcas and Anconas.

Price: No. 9 for the Mediterranean breeds and pigeon bands, 12, 10c; 50, 25c; 100, 40c. Asiatic and American breeds, 12, 15c; 25, 25c; 50, 40c; 100, 60c.

NOTICE

Thermometers and all glassware are carefully packed, but safe delivery not guaranteed and we will not be responsible for breakage. To insure safety send insurance fee with your remittance.

Incubator Thermometers



When used with Stand

5776 — TYCOS INCUBATION-ZONE—4-inch while-enameled metal scale with black figures and graduations; plain glass tube filled with distilled mercury; circle between the 100° and 105° points on the scale makes it easy to note whether the incubation temperature of 103° is being held. Price, \$1.00; postpaid, \$1.10.

5783 — TYCOS CERTIFIED — Angle-pattern 4-inch black oxidized metal scale with white-filled figures and graduations; plain glass tube filled with distilled mercury; every fifth line and figures stamped on the scale and every single degree line engraved on the glass thermometer tube. Price, \$1.25; postpaid, \$1.35.

Brooder Thermometers

5794S — Ordinary grade, white lithographed scale, 4½ inches long, black figures 10 to 140°. Price, 65c; postpaid, 75c.

5170S — Wood back, splendid cheap brooder thermometer. Price, 40c; postpaid, 50c.

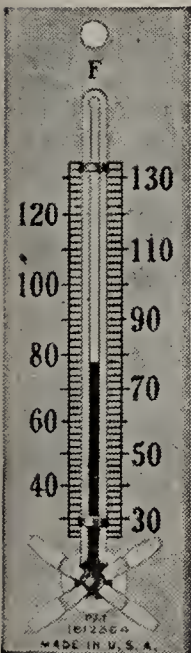
Dairy Thermometers

Glass Floating

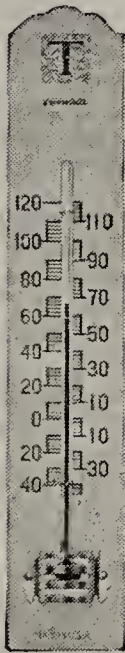
5700 — Churn Thermometer. Glass cylinder with enclosed paper scale; 10" long; mercury filled tube; weighted to float upright. Range 10° to 110° F. in 1° graduations. Best grade. Price, \$2.00; postpaid, \$2.10.

5701 — Pasteurizing Thermometer, glass cylinder hand written paper scale, 2° graduation, accurate within one division of the scale, mercury tube. Approximate scale range, 30° to 220° F., 10 inches. Weighted to float upright. Price, \$2.00; postpaid, \$2.10.

5702 — Churn Thermometer, glass cylinder with enclosed paper scale; 10" long; mercury filled tube; weighted to float upright. Range 10° to



5170S



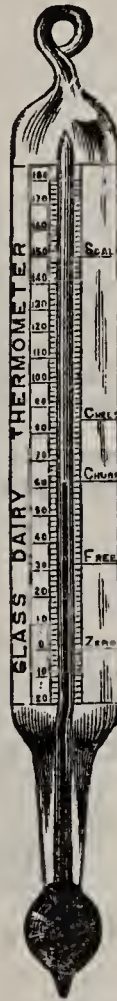
5794S



5700



5701



5715

110° F. in 1° graduations. Highest quality imported thermometer of this type obtainable. Price, \$1.00; postpaid, \$1.10.

5703 — Pasteurizing Thermometer, glass cylinder hand written paper scale; 2° graduation, accurate within one division of the scale; mercury tube; approximate scale range 30° to 220° F.; 10 inches; weighted to float upright. Highest quality imported thermometer of this type obtainable. Price, \$1.00; postpaid, \$1.10.

Please note that the description of 5700 and 5702 is exactly alike. This is also true regarding 5701 and 5703. Then note the difference in price and that the one is imported and the other is American made.

5715 — All glass floating Churn and Pasteurizing Thermometer. Approximate scale range, 0° to 150°. Length, 8 in. Mercury filled tube. Best imported. Price, 60c; postpaid, 70c.

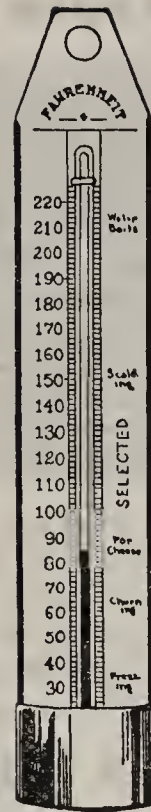
Flanged Metal Scale

5705 — Flanged, metal scale Churn and Pasteurizing. Ten-inch electro silver plated scale, gold plated straps and screws, magnifying mercury filled tube, sliding guard; approximate scale range, zero to 220° F., 10 inches. Selected common grade. Price, \$2.00; postpaid, \$2.10.

No. 5740S — Selected Ordinary Grade. Brass scale with engraved figures and graduations sliding bulb guard; white back, permacolor filled tube; approximate temperature range 20° to 220° F.; length, 8 in. Price, \$1.00; postpaid, \$1.10.



5705



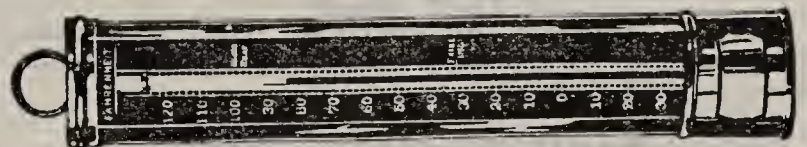
5740S

Greenhouse Thermometers



5400S

No. 5400S — Best grade, 10 inches, black japanned, heavy tin case. Spirit. Tube filled with red permacolor (non-fading and easy reading) black oxidized brass scale with white filled figures and graduations. Price, \$2.00; postpaid, \$2.10.



5420S

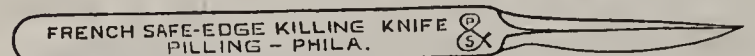
No. 5420S — Selected grade, 10 inches, black japanned tin case. Spirit. Same as 5400S, but selected grade instead of best grade. Price, \$1.50; postpaid, \$1.60.

Hydrometer



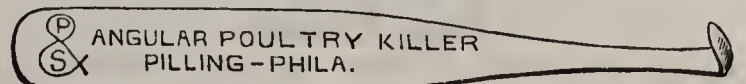
P7244 — Salt Scale Salometer. Range 0 to 100. Graduation 1-60% F. Length 11 inches. Price, \$1.50; postpaid, \$1.60.

Safe Edge Killing Knife



Exactly same as French Killer except cut on one side only. Price, 60c; postpaid, 65c.

Pilling Angular Killing Knife



By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. Price, 60c; postpaid, 65c.

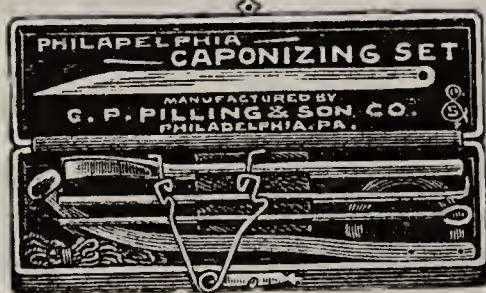
Lansdowne Capon Sets



Lansdowne Automatic Testicle Remover is easy to use. The grasping loops are exactly same principle as the Miles Remover, which has been in use for fifty years; but the patent feature has made it perfect as to simplicity of the operation and to prevent making slips.

Price, \$4.50; postpaid, \$4.60.

New Philadelphia Capon Set



Consists of a knife for making the incision; the spreader for holding sides open; sharp hook for piercing skin; the Lansdowne Remover for removing the testicles. Cords with hooks for holding the bird. Cup forceps for removing any foreign matter. Price, \$3.50; postpaid, \$3.60.

Nest Eggs

Porcelain—Price, 5c each; 1/2 doz., 20c; doz., 35c; mailing weight, 2 lbs., per dozen; add postage.

Sanitary Hens' Nest

Three compartments. Price, \$3.00; weight, 30 lbs. Add postage.

Ten compartments. Price, \$10.00.

Wire Hens Nests

These nests are made from heavy japanned steel wire. They are intended to be fastened to the wall with screws or screw hooks.

Size, 14 inches in diameter, 1 1/4-inch mesh. Each, 15c; doz., \$1.50. Weight 3/4 lb. each. Add postage.

Hatching Egg Boxes

These boxes are specially designed to withstand the rough usage and to afford complete protection to the eggs. Compare the weight of these boxes with others that are quoted at a lower figure, and you will be enabled to judge of their respective qualities.

	Each	1/2 Doz.	Doz.	Wt. Doz.
15 eggs	\$0.35	\$1.75	\$3.00	20 lbs.
30 eggs .....	.50	2.75	5.00	30 lbs.
50 eggs .....	.65	3.50	6.50	40 lbs.

Add postage.

Egg Cases

Each, knockdown, 30c; 1/2 doz., \$1.50; doz., \$2.75; 25, \$5.50. Weight, each 7 lbs. Add postage.

Egg Case with fillers. Each, 60c. Weight, 12 lbs.; add postage.

Egg Case, 12 doz. capacity, 80c. Weight, 7 lbs. Add postage.

Egg Case Fillers

Pasteboard fillers for 30-dozen case, 30c.

Weight, 6 lbs. Add postage.

Pasteboard fillers, per case (for 12 30-dozen cases), \$3.25.

Weight of case, 55 lbs. Add postage.

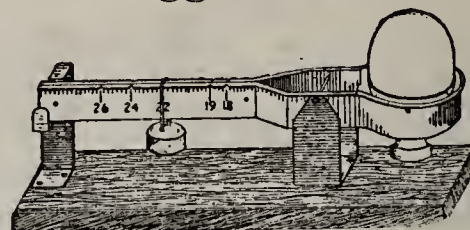
EGG BOXES



Paper—Intended for use in delivering eggs to private families. If you have a select egg trade you should use this box.

Doz., 20c, postpaid; at purchaser's expense. package of 125, \$1.25 250, \$2.00; 500, \$3.75; 1000, \$7.50. Weight of 125, 15 lbs. Add postage.

Egg Scales



It makes no difference how you place the egg on the Champion Egg Scale because the egg cup is balanced on axis and is always held to "perfect center" by the balance weight under the cup. Simple in construction and easy to operate.

Grade Eggs in following grades: 19, 22, 24, 26 ounces to the dozen. Made of solid brass—will not get out of order—no loose parts to get lost.

Price, \$1.75 each; postpaid, \$1.85.

E. Z. Scale, 75c; postpaid, 85c.

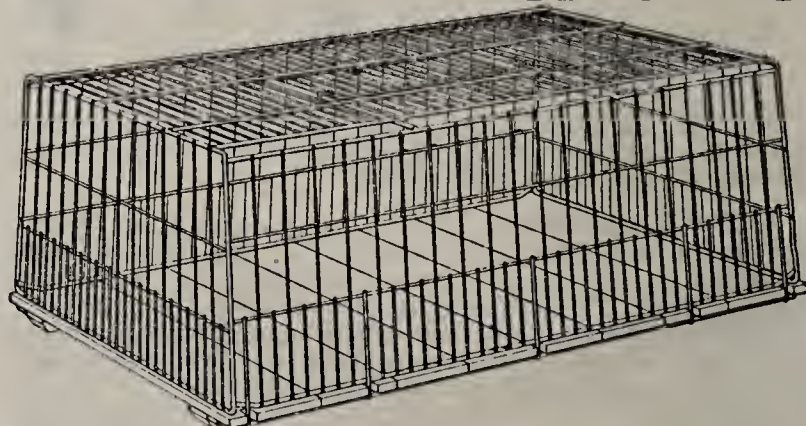
Live Chick Boxes

These shipping boxes are made of high-test quality corrugated paper, and are so constructed as to afford the greatest strength and stiffness, without unnecessary bulk of weight.

Capacity	Size	Each	1/2 Doz.	Doz.	Wt. Doz.
25	9x11x5 1/2	20c	\$0.90	\$1.50	14-lbs.
50	18x11x5 1/2	25c	1.25	2.00	18 lbs.
100	27x22x5 1/2	30c	1.50	2.75	32 lbs.

Add postage. Prices subject to change.

Clover Leaf Steel Shipping Coop



It is made of galvanized steel bars and wire, and will not rust.

It has a narrow mesh on top, which eliminates the possibility of the poultry poking their heads through and being killed.

Self locking. Side door on top.

Weighs but 24 pounds, and never gets heavier.

Size 27x41x14 inches high. Price, \$4.50.

Size 27x41x20 inches high. Price, \$5.50.

Automobile Coop

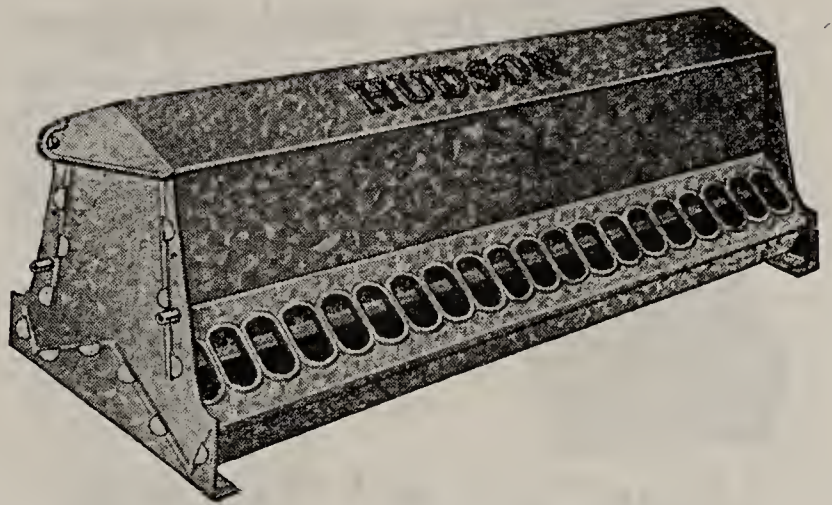
For conveying poultry to market this coop has no equal. It is light, easily attached to the automobile, and projects but an inch or two beyond the edge of the running board. Price, \$4.50.

Shipping Coops

INLAND — All wood, neat, very light, but strong. Poultry raisers selling poultry at fancy prices should always use these coops.

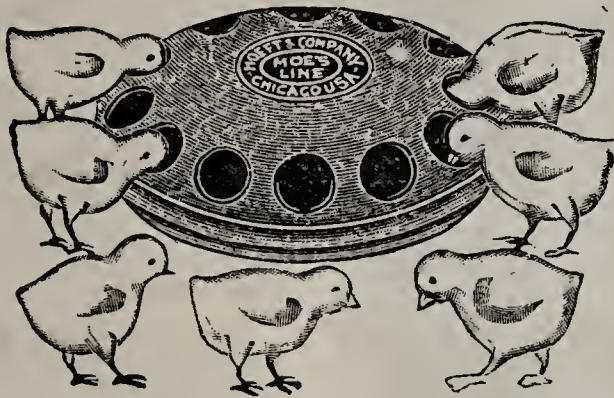
	Each	1/2 Doz.	Doz.	Weight
No. 1—10x20x20	20c	\$1.15	\$2.25	6 lbs.
No. 2—12x24x40	30c	1.75	3.25	10 lbs.
No. 3—20x24x20	40c	2.25	4.25	15 lbs.

Add postage.



RO-36—The rounded bottom trough has double folded turned-in flange, a trough edge which insures strength and prevents waste. Reel is well balanced on revolving pins, making it impossible for chicks to roost on it, and is adjustable to two positions, thus accommodating small and large chicks. Length 36 inches. Price, 50c. Weight 2 1/2 lbs.; add postage.

Moe's Baby Chick Feeders



Round feeders for baby chicks. Also used for water and milk. Tops fit snugly, yet are easily removed for filling and cleaning.

No. 12—Galvanized, 12 holes; diam., 8 in. Each, 20c; postpaid, 25c.

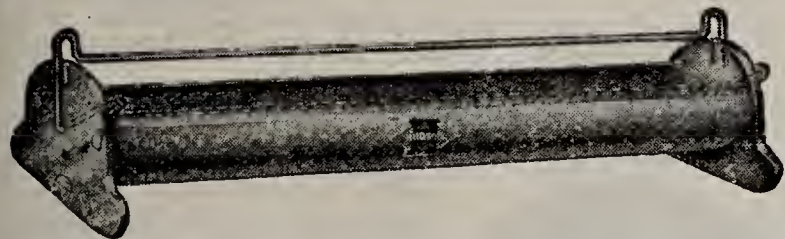
Magazine Chick Feeder



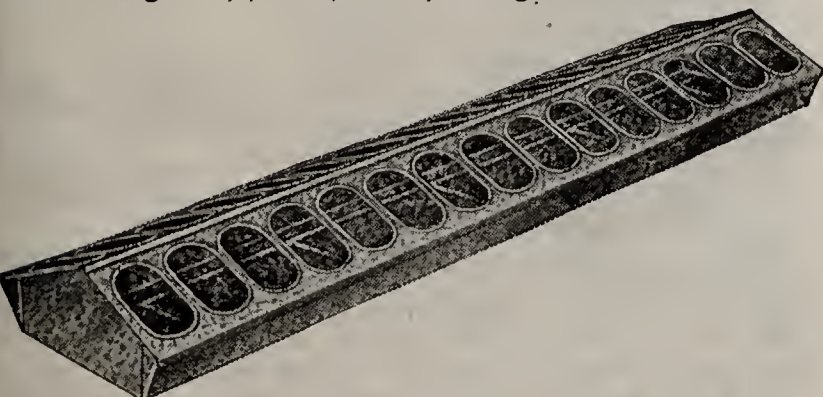
The top magazine is water and air tight, so can be used as a Feeder or Fountain. Adjustable for various feeds. Holds 2 quarts.

No. 18—Galvanized. Each, 35c; postpaid, 50c.

No. 139—Heavy tin plate. Each, 65c; postpaid, 75c.

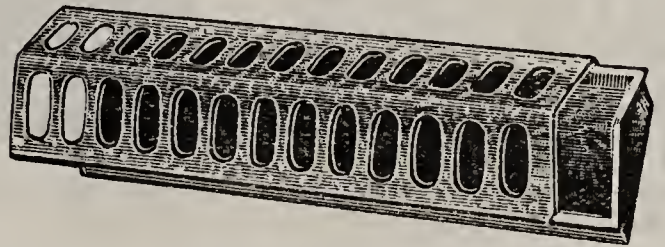


N-24—Turned-in flange at trough edge prevents feed waste; double thickness eliminates sharp edge and increases strength. Wire guard prevents chicks getting into trough. Height of wire rod adjustable. Length, 24 inches. Price, 30c. Weight 1 1/4 lbs.; add postage.



G20—Very suitable for small chicks. No rivets or solder to become loose. A one-piece feeder. Length, 20 inches. 30 holes. Price, 30c. Weight 1 1/4 lbs.; add postage.

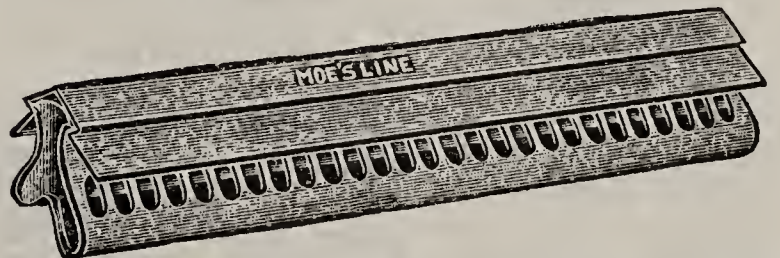
Double Feeding Trough



Galvanized steel. Feeder holes have smooth turned-over edges to prevent injury to the chicks. Sliding top.

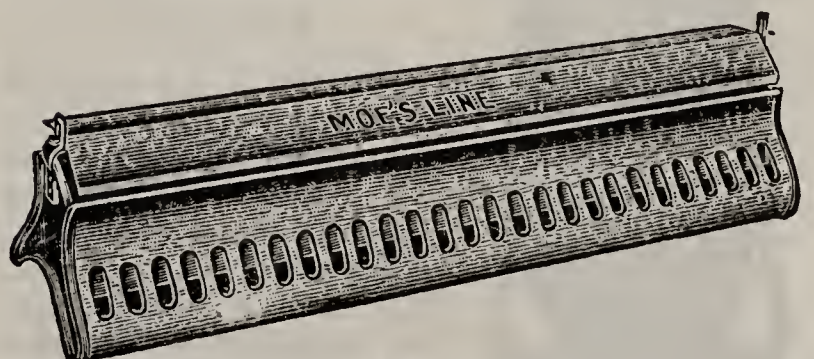
No. 76—Length, 36 in. with 52 feeder holes. Each, 65c; postpaid, 75c.

Large Capacity Feeders

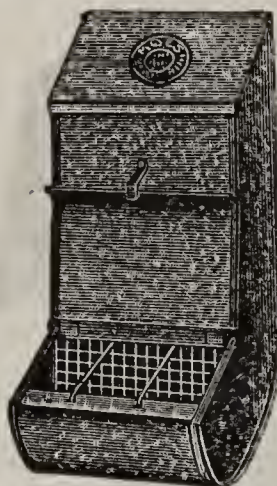


For either small or large flocks. Smooth feeder holes just the right size and shape, and in just the correct position to give the chickens easy access to the feed and yet prevent needless waste.

No. 140—Capacity, 10 quarts; length, 21 in.; 32 feeder holes. Each, 90c; postpaid, \$1.00.



No. 141-T—Has a Tilting or Swinging Top so that chickens cannot perch on it. Capacity, 17 quarts; length, 35 in.; 54 feeder holes. Each, \$1.60; postpaid, \$1.70.



Dry Mash Hoppers

Best quality galvanized steel. The curved bottom keeps the feed within easy reach of the birds, and the taper shape of the hopper prevents the feed from clogging.

No.	Width	Cap.	Wt.	Price
35	10 in.	10 qts.	20 lbs.	\$0.75
81	12 in.	14 qts.	25 lbs.	1.00
83	24 in.	32 qts.	38 lbs.	1.75

Add postage.

Inland Grit and Shell Box

The Inland Sanitary Grit and Shell Boxes work a material saving in grit, shell, bone, charcoal or poultry feeds. They are thoroughly practical, self-feeding, made of heavy galvanized iron. They are provided with a cover or lid, which protects the contents, and being placed at an angle furnishes a slanting top, preventing the fowls from roosting on the top of the box. Length of 3 compartments 12 inches. Price, 75c; weight, 4 lbs. Add postage.



Four compartments, 16½ inches in length. Price, \$1.00. Weight, 5 lbs. Add postage.

Mash Feeders

No. 8-S—Length, 36 in. Shipping weight, 55 lbs. Price, \$9.00.

No.	Length	Weight	Price
36	36 in.	18 lbs.	\$3.00
60	60 in.	29 lbs.	4.50

Add postage.



Mason Jar Fountains

Made from extra heavy galvanized iron, blue enameled steel or Charcoal Tin. No solder used. Very substantial pan with heavy rolled edge; electric welded center. Glass jars not furnished.

No. 1 Enameled—Wt., 4 lbs. per dozen. Each, 10c. Add postage.

No. 2 Galvanized—Weight, 4 lbs. per dozen. Each, 10c; add postage.



Buttermilk Feeders

No. 70B — Examine carefully this splendid buttermilk feeder for use with half-gallon Mason jars. It comes with aluminum pan but without jar. The pan is held close to mouth of jar in up-ending, to prevent spilling. It is then adjusted to feed at desired depth. Price, 30c; postpaid, 35c.

Single Wall Bottom Filled Fountains

C1G—Made from heavy galvanized iron. Sloping cover prevents roosting. Pail and pan snap together on glove fastener principle. Capacity, 5 quarts. Price, 60c. Weight 1¾ lbs. Add postage.



Made from heavy galvanized iron. The bail is reversible, the top part of the fountain forming a pail, which can be cleaned, filled and carried about at will with perfect safety. Snap hooks attaches pail to pan.

C2—2 gallons. Price, \$1.00. Weight, 3½ lbs.; add postage.

C3—3 gallons. Price, \$1.25. Weight, 4 lbs.; add postage.

Single Wall Top Filled Fountains

Float type, made from heavy galvanized iron. New pivot disc on cover wobbles from side to side and positively prevents roosting.

LF-5—Capacity, 5 gallons. Price \$3.00. Weight, 10 lbs.; add postage.

LF-8—Capacity, 8 gallons. Price, \$3.75. Weight, 13 lbs.; add postage.



Double Wall Top Filled Fountains



Inner jacket provided with self-closing valve preventing flow of water into pan when cover is removed. A slight turn of the cover securely fastens the containers, thus permitting the fountain to be carried by the handle. Made extra heavy and strong.

D-2 — Capacity, 2 gallons. Price, \$1.25. Weight 6 lbs.; add postage.

D-3 — Capacity, 3 gallons. Price, \$1.50. Weight, 7 lbs.; add postage.

Vacuum type, all double wall fountains keeps water cool in summer and retards freezing in winter. Feeds automatically. Valve prevents pan overflowing while being filled. Outside appearance exactly like LF-5 and LF-8.

C-5—5 gallons. Price, \$2.75. Weight, 13 lbs.; add postage.

C-8—8 gallons. Price, \$3.50. Weight, 15 lbs.; add postage.

Insulated Fountains

Every poultryman realizes the importance of supplying to his flock at all times an abundance of water, and how difficult this is when ordinary fountains are used. It is therefore important that a reliable insulated fountain be used. The insulated fountain here shown has all the insulating material in the slip cover which is easily removed permitting access for cleaning the entire interior of the tank and trough.



PW-3—3 gallons. Price, \$4.00. Weight, 19 lbs.

PW-6—6 gallons. Price, \$5.25. Weight, 26 lbs.; add postage.

Float Valve

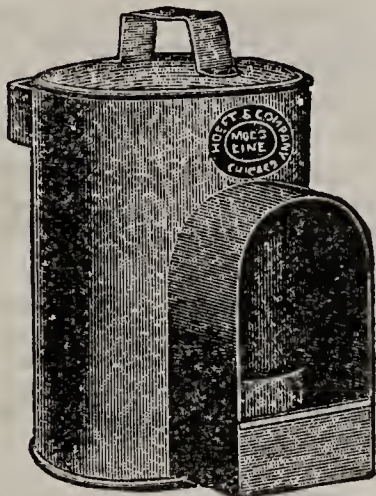
The reliable automatic float valve is made entirely of brass and copper, which makes it rust proof, and will work under any water pressure. Price, \$1.00; postpaid, \$1.10.

Moe's Wall Fountain

A popular fountain, of heavy galvanized steel. Easy to fill and the water feeds automatically. Covered drinking space.

No.	Cap.	Wt.	Price
98	1 Gal.	5 lbs.	\$0.75
99	2 gal.	7 lbs.	1.00

Add postage.



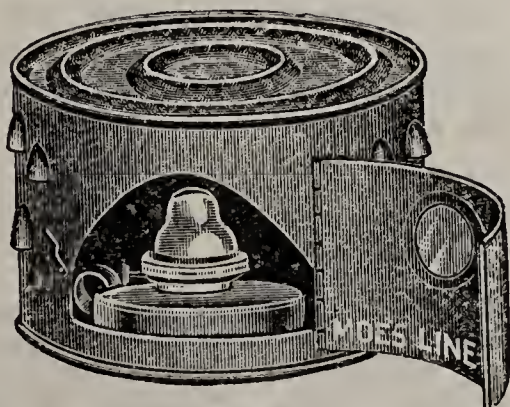
Fountain Heaters and Stands

The Heater exactly fits our No. 205 and 208 fountains with the entire bottom of the fountain setting inside the heater top, fitting very snugly.

HEATER, STAND, FOUNTAIN COMPLETE

No.	Capacity	Weight	Price
B.....	5 gals	28 lbs.	\$6.00
C.....	8 gals	30 lbs.	7.75
Heater only		7 lbs.	2.00
Stand only		9 lbs.	2.00

Add postage.

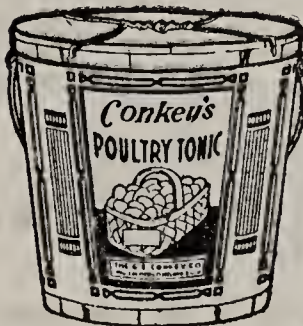


Fountain Heater

Solves the problem of a uniform supply of fresh water at all times, no matter how cold the weather. Can be used with all styles of fountains and makes an ideal heater fountain at a low price. Price, \$2.00. Weight, 5 lbs.; add postage.

Poultry Tonics

POULTRY CONDITIONER—For general run-down condition; a fine general tonic during the moulting season or after recovery from any disease. Pkg., 30c; weight, 10 oz., postpaid, 35c.



Conkey's Poultry Tonic fills the egg basket in spite of weather. It is not a food, but a tonic to be mixed with the regular feed during seasons when fowls get sluggish and want to loaf instead of lay.

	Price	Net Weight	Gross Weight
Package	\$.30	1½ lbs.	1¾ lbs.
Package .....	.60	3¼ lbs.	3½ lbs.
Package	1.20	7 lbs.	7½ lbs.
Pail	2.25	12 lbs.	14½ lbs.
Pail	3.75	25 lbs.	29 lbs.

Add postage.

LEE'S EGG MAKER is not a tonic nor a medicine, but a meat food of great value. It will make hens lay, chicks grow, and keep them all in a healthy, vigorous condition. 2-lb. pkg., 30c; add postage.

EPSOM SALTS—3 lbs., 25c; add postage.

Cod Liver Oil and Yeast

By supplying needed vitamins, cod liver oil and yeast, banish weakness and other chick troubles, promote rapid and vigorous growth and keep hens in the pink of condition, able to produce a heavy lay.

Conkey's Y-O, which is a combination of yeast and cod liver oil made by a special patented process, solves the problem in an economical way. The product comes in the form of a dry chocolate-brown powder, which is free running and readily mixed with any poultry mash.

	Price	Net Weight	Gross Weight
Package	\$.60	1 lb.	1¼ lbs.
Package	1.10	2 lbs.	2¼ lbs.
Package	2.25	5 lbs.	5½ lbs.
Package	9.00	25 lbs.	30 lbs.

Add postage.

Cod Liver Oil

Recent studies show that certain Vitamins are necessary for proper growth, body maintenance, and reproduction.

Vitamin "A" is a growth producing Vitamin and is also essential for the maintenance of disease resistance.

Vitamin "B" is also necessary for proper growth. A lack of it promptly prevents growth.

Vitamin "D" is the one which prevents or cures leg-weakness or "rickets" in young chicks.

Gallon, 90c, if customer furnishes container; \$1.05 if Inland Seed Co. furnishes container.

Poultry Pepper Compound

This is a splendid tonic at all times. A small amount sprinkled in with a hot mash will stimulate the circulation and increase egg production. Lb., 30c; 10 lbs., \$2.75; 25 lbs., \$6.25. Add postage.

LICE KILLERS AND DISINFECTANTS

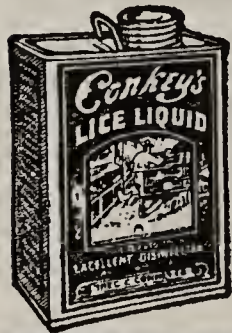
"Black Leaf 40" "painted" full strength (1 oz. to 12 or 15 feet of roost) on the top-sides of the roosts before fowls perch for the night, kills body-lice. Fumes are slowly released, which permeate the feathers. The fumes from one "painting" persist for several days.

1-oz. bottle	\$0.35	2-lb. tin	\$3.10
5-oz. bottle	1.00	5-lb. tin	5.85
1-lb. bottle	2.10	10-lb. tin	10.15

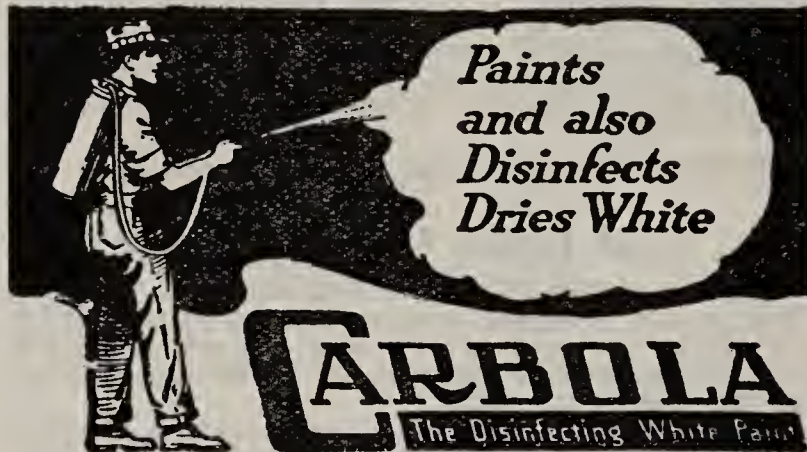
Not mailable.

Buhach

1½-oz. pkg., 25c; 3-oz. pkg., 50c; 6-oz. pkg., 75c; 12-oz. pkg., \$1.25. Add postage.



LICE LIQUID is for painting roosts, fittings, the inside of house, nest boxes and wherever mites congregate. Cans—qt., 60c; 2 qt., 90c; gal., \$1.50 Not mailable. Express or freight, extra.



THE POWDER OF MANY USES

Carbola is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with brush or spray pump. Disinfects and dries pure white. Does not flake or peel off. One pound covers 100 square feet.

Price, 10 lbs., \$1.75; 50 lbs., \$7.50; add postage.

HEAD LICE OINTMENT is for overcoming and preventing the murderous head louse which "eats up" baby chicks. Packages, 15c, 30c; 20c and 35c, postpaid.

LICE FIX is a preparation in ointment form for fighting body lice. One application lasts a month. Packages, 30c, 60c; 35c and 65c postpaid.

LICE POWDER is for dusting hens, nests, growing chicks and for use wherever body lice must be overcome. 1 lb. package, 30c; 2½ lb. package, 60c. Mailing weight 2 and 3 lbs. Add postage.

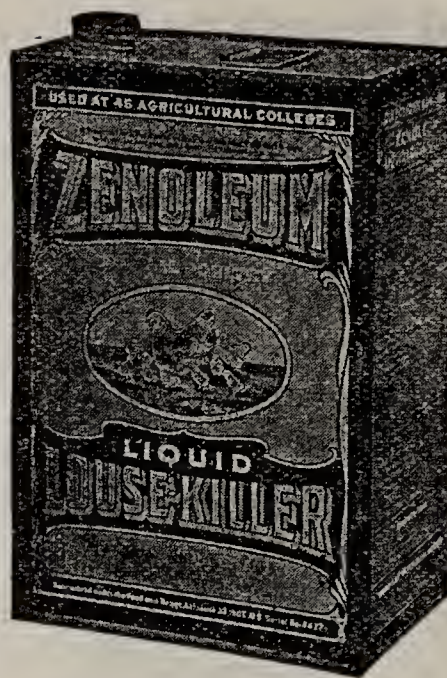
Revenge

Put Revenge in the dustbox. Its reputation as an absolutely safe vermin destroyer convinces that it not only instantly kills, but keeps poultry free from both HEAD and BODY Lice—It sticks to the fowl—IT WON'T DUST OFF.

1½-lb. can, 50c; 3-lb. can, 75c. Mailing weight, 3 and 4 lbs.; add postage.

Tobacco Dust

For use in dust baths or nests. A cheap and effective exterminator of lice. Lb., 15c; 10 lbs., \$1.25; 25 lbs., \$2.50; 50 lbs., \$4.25; 100 lbs., \$7.50. Add postage.



Zenoleum

One gallon of Zenoleum makes 100 gallons of positive disinfectant. Kills vermin, cures skin trouble. Invaluable as a remedy for diseases of poultry and all live stock. Kills lice and cures mange. Disinfects incubators. Pint, 50c; qt., 75c; ½ gal., \$1.25; gallon, \$2.00. Not mailable. Express or freight extra.

Poultry Remedies

Conkey's

Conkey's Poultry Remedies are amongst the oldest on the market, and during all these years their quality has never been questioned, as they have continued to give satisfaction and results.

CANKER AND BRONCHITIS—Checks cancerous growths and sores and soon restores the bird to normal. Package, 60c; postpaid, 65c.

CHOLERA—So-called cholera, bowel troubles, indigestion, diarrhea and kindred ailments often kill a whole flock in a few days. Symptoms: Drowsy, listless appearance. Put cholera remedy in water. Package, 30c, 60c; postpaid, 35c and 65c.



GAPE—Gape worms accumulate in the windpipe and choke the chick to death. Conkey's Gape Remedy comprises two powders—both in the same box for one price—one sifted over chicks causes them to dislodge the worms in windpipe by coughing, the other is a tonic powder which is mixed in the feed—to help the bird build up its resisting powers and retain its vitality. 30c, 60c; postpaid, 35c, 65c.

LAXATIVE—Wherever a laxative or purgative is needed this remedy is just the thing for birds—by varying the dosage you can produce either a mild or strong effect. Packages, 30c, 60c; postpaid, 35c and 65c.

LIMBERNECK REMEDY—For ptomaine poisoning. Packages, 60c; postpaid, 65c.

SCALY LEG—Applied to birds' legs will in a few treatments kill the parasites responsible for the trouble and heal up the legs with a healthy lustre. Package, 30c; postpaid, 35c.

SORE HEAD (Chicken-Pox)—Little brown spots appear on comb, face and wattles. Under these is a pocket of virulent pus. Apply Conkey's Sore Head Remedy. Package, 30c and 60c; postpaid, 35c and 65c.





ROUP—When birds sneeze, froth in eyes, or run at nose put Conkey's Roup Remedy in the drinking water. Sick birds doctor themselves and others are protected from catching the disease. Better still, always at the first sign of "roupy weather," place Conkey's Roup Remedy in fountains—it's a great preventive.

Packages, 30c, 60c; \$1.20; 1½ lb. can, \$2.50; 5-lb. can, \$5.75; or postpaid, 35c, 65c, \$1.25; \$2.60, \$5.95.

ROUP PILLS—Packages, 30c, 60c; postpaid, 35c and 65c.

WHITE DIARRHEA—As a preventive of bowel troubles, white diarrhea and other digestive complaints, it has given great satisfaction for many years. Once started diarrhetic conditions often sweep away the whole hatch. This remedy is also recommended as a preventive measure and for treatment of coccidiosis. Packages, 30c, 60c, \$1.20; postpaid, 35c, 65c, \$1.25.



Worm Killers

"BLACK LEAF" WORM POWDER—An odorless, tasteless, dry compound containing nicotine that remains insoluble in the mouth, throat, crop and gizzard, hence non-toxic to poultry. When given to poultry it mixes with food in the crop and gizzard, yet passes through the digestive tract unchanged until it reaches the intestines where large roundworm infestation occurs. There the nicotine is released immediately, and dead roundworms begin to be expelled a few hours later, continuing for about 24 to 36 hours. This product furnishes "one-shot" control of roundworm without handling the birds and without the disturbance caused by individual handling. The dose is ¼ pound, mixed in a gallon of mash, for 100 birds; or 1 pound to 400 birds; fed the first thing in the morning. 4 oz., 65c; prepaid, 70c. 1½ lbs., \$2.50; prepaid, \$2.60.

Lees

CAPSULES—An Insoluble Capsule carrying a triple combination worm medicine for Tape worms, Round worms and Pin worms. Being insoluble, it passes through the mouth, throat, crop and stomach of the fowl to the gizzard where it is ground up like a grain of corn, pouring the full strength, undiluted medicine directly into the intestines upon the worms.

GIZZARD CAPSULES do not cause sickness or depression if used according to directions on birds that are in normal health except for worms.

	Adult	Pullets	Chick
50 capsules	\$1.00	\$0.75	\$0.50
100 capsules	1.75	1.35	.90
250 capsules	4.00	3.00	2.00
500 capsules	7.00	5.00	3.50
1000 capsules	12.00	9.00	6.00

Postpaid.

FLU-KOFF EMULSION is a cough syrup which greatly helps to allay cough, reduce temperature and overcome irritation and inflammation. Especially recommended for use with Vapo-Spray in very severe cases of Bronchitis. Give in wet mash or soaked oats.

Bottles	Price	Postage Paid
12 oz.	\$1.25	\$1.35
32 oz.	2.25	2.40
½ gallon ..	3.75	3.95
Gallon	7.00	7.25

VAPO-SPRAY is a compound of healing oils. It is simply wonderful for the treatment of colds which occur very frequently among poultry during the late Fall and Winter months. Spray it in the air of the poultry house at night. The chickens breathe the vapors given off, which produce almost instantaneous relief. The entire flock can be treated as easily as one bird.

Bottles	Price	Postage Paid
32 oz.	\$0.75	\$0.90
½ gallon ..	1.25	1.45
Gallon	2.25	2.50

GERMOZONE

Keeps Chickens Healthy



GERMOZONE is especially valuable in preventing and controlling the diarrhoeas and digestive disorders of little chicks and grown fowls. Use it for Bowel Complaint in little chicks; for Cholera, Roup, and other diseases among the older fowls. Put up in bottles.

Bottles	Price	Postage Paid
4 oz.	\$0.40	\$0.45
12 oz. ....	.75	.85
32 oz.	1.50	1.65
½ gallon ..	2.50	2.70
1 gallon ..	4.50	4.75

Germozone Tablets

	Price	Postage Paid
Box 20 tablets.....	\$0.25	\$0.30
Box 75 tablets.....	.75	.80
Box 200 tablets.....	1.50	1.60



NON-PIKK will, if used in time, prevent toe-picking, rump-picking, feather-pulling—cannibalism. It is as effective on old birds as it is on young. Just treat the birds and return them to their pens and watch them get their lesson—one taste and they never forget. It is repulsive to the taste, but not injurious.

At the first sign of toe-picking, etc., apply a small amount of NON-PIKK on the wings and tails of several birds in each pen. Also stops feather pulling in song birds.

	Price	Postage Paid
1 oz.	\$0.25	\$0.30
¼ lb. ....	.75	.80
½ lb.	1.00	1.10
1 lb.	1.50	1.60

Egg-O'Latium

Egg-o-latium is a white cerate. Rubbed over the shell of the egg it seals every pore. A dozen a minute and they will keep a year. Fresh eggs must be used, unfertile ones are best. One package treats 50 doz. eggs.

Price, 50c and \$1.00. Postpaid, 55c and \$1.10.

Poultry Scraper



No. 200—Price, \$1.10. Mailing weight, 6 lbs.
No. 300—Price, 90c. Mailing weight, 4 lbs.
Add postage.

An excellent tool for scraping dropping boards, brooder floors, etc. Has curved blade of high-carbon steel. No. 200 has blade 16 inches

in length by $5\frac{1}{2}$ in depth and $4\frac{1}{2}$ -foot handle. No. 300 has blade 12 inches in length by $4\frac{1}{2}$ in depth and 4-foot handle. Handles are made of ash and lacquered.

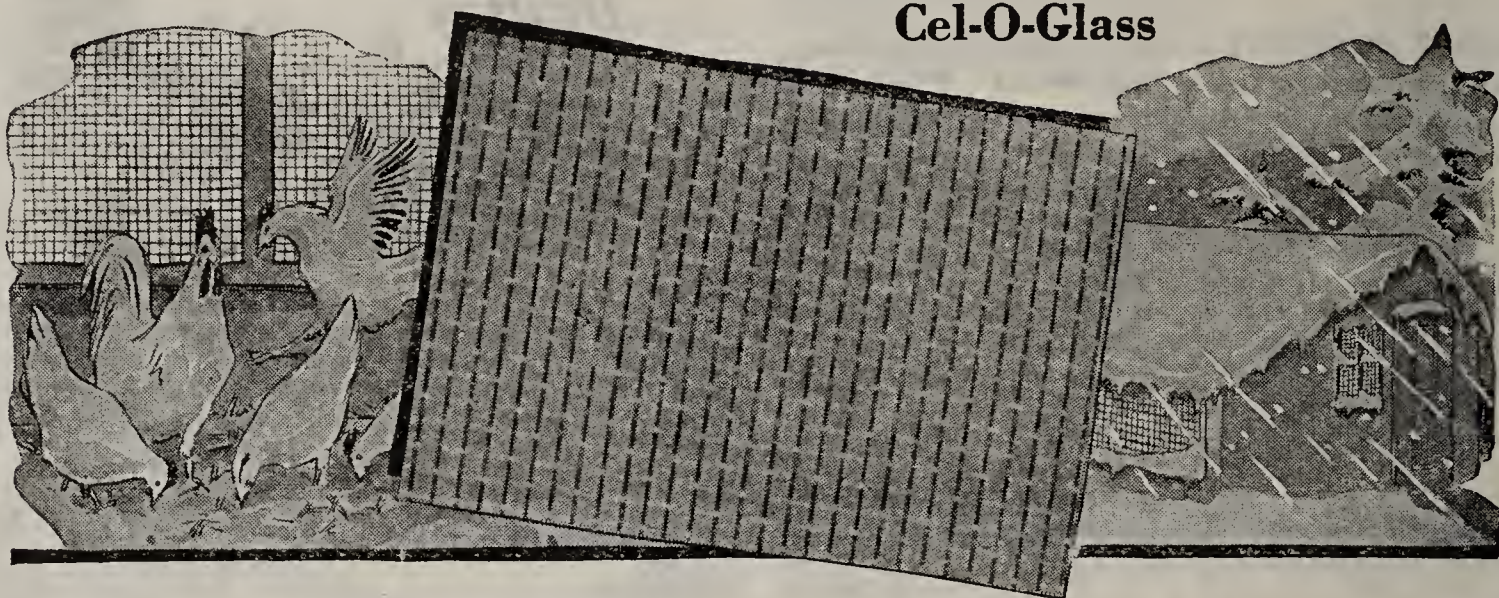
CEL-O-GLASS

Cel-O-Glass is clear, tough and flexible. It is hail, rain, wind and rust proof, is a non-conductor of heat and cold, light in weight, and easy to apply.

In addition to furnishing a protection for your poultry, CEL-O-GLASS lets through the valuable, stimulating and health-giving Ultra-Violet rays of the sun. CEL-O-GLASS is ideal for hot-bed sash, coldframes, etc.

CEL-O-GLASS is made in rolls 3 feet wide, and 100 feet in length. Weight, 44 pounds. Price, per yard, \$1.20. Add postage.

Cel-O-Glass



VIO-RAY

The glass substitute that lasts longer. Made with a new coating process on an extra heavy fabric base. Is more flexible and more moisture-proof than other similar materials. VIO-RAY'S greater flexibility prevents cracking in cold weather. Its moisture-proof coating prevents premature rotting.

VIO-RAY transmits the ultra-violet rays of the sun which increase egg production, save baby chicks and promote health and growth.

Is weatherproof and does not rot like ordinary cloth window materials. 100 yards in roll. Width, 3 feet. Price, 25c per yard; weight, 52 lbs. per roll; add postage.

"United" Steel Feeding Battery

An eight-compartment, all steel battery good for 400 to 450 lbs., or 80 hens. Size $27 \times 54 \times 76\frac{1}{2}$ inches high. All four sections 15 inches high. Equipped with $4\frac{1}{2}$ -inch seamless galvanized troughs. Doors slide up, which is a most convenient feature. Two heavy galvanized trays underneath each section for droppings to collect in. Heavy angle iron truck equipped with $6\frac{1}{2}$ -inch truck wheel and 3-inch casters.

Where large quantities of poultry are handled, the 16-compartment battery is the best size. It has a capacity of about 112 grown birds. Height $77\frac{1}{2}$ inches, length $62\frac{1}{2}$ inches, width 37 inches. Weight, complete with troughs, 392 pounds.

Send for descriptive circular and price.

Oat Sprouters

The Successful Sprouter is built in sections. The size of the base is 20 by 15 inches high. Each section contains two trays. Size of section is 20 inches square and $10\frac{1}{4}$ inches high. Each tray measures 17 inches square.

Has hinged top so you can sprinkle the grain from above in one operation. Capacity, from 40 to 50 quarts dry grain, and is recommended

for flocks of from 400 to 600 hens. The sprouter here shown in cut has three sections or 6 trays.

Quote 5 sections, 10 trays. Price, \$15.00.

Quote 2 sections, 4 trays. Price, \$10.00.

Banner Root Cutters

These excellent machines are so low in price that every farmer, stock raiser or poultry man

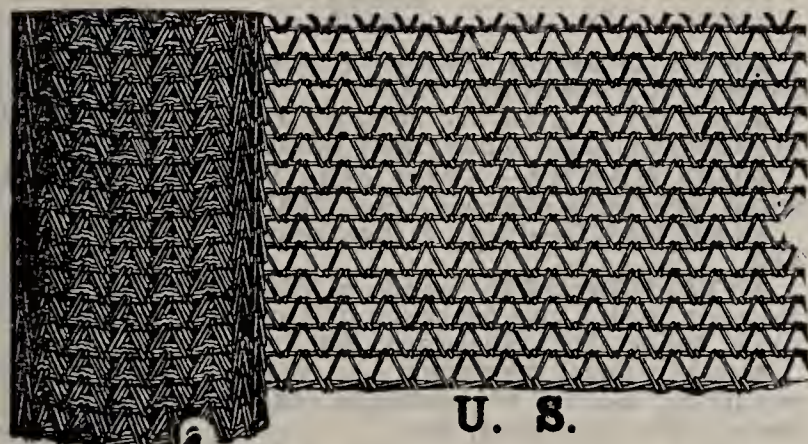


No. 7

should have one, as roots are the cheapest green feed for stock and poultry. The Banner is substantially made of first-class material. Weight, 50 lbs. Extra knives, 35c each. Price, \$9.00.

CORN SHELLER

It can be set to shell any corn that grows. Made with ball-bearings, obviating the expense of a heavy balance wheel. Easily fastened to box by thumbscrews—no bolts nor screws required—no holes to be bored. Weight, 14 lbs. Price, \$3.50. Add postage.



Poultry Netting

Owing to the fact that we are unable to secure a price on poultry netting as this catalog goes to the printer, we are unable to quote. Ask for prices.

Poultry Feeds

The prices herein quoted for poultry feed is for this date only, January, 1934, and may or may not continue for any length of time. Quotations on poultry feed or anything else not guaranteed.

The sharpest and hardest grit known. Free from dust. Rich in iron, silica, aluminum and mica. Each crystal has sharp edges, which cut and grind, and grind and cut until the last minute particle is worn away. In ordering state whether you want chick or medium size.

100 lbs., \$1.00.



The experience of poultry raisers is the same the world over, and that is that it is easier to hatch young chicks than it is to raise them. By using Clover Leaf Chick Feed you can give the chicks just what nature intended, mixed in the right proportion to produce a quick and profitable growth without loss.

25 lbs.\$0.75
100 lbs. 2.00

Add postage.

CLOVER LEAF FORCING FEED, as its name implies, is specially intended for properly maturing young chicks after they are ready to be weaned from chick feed. When the chicks are from six to eight weeks old they are able to eat larger particles of grain than are found in our chick feed.

Our Forcing Feed contains a variety of grain in sizes and quantities exactly suited to the purposes for which it is intended. 25 lbs., 75c; 100 lbs., \$2.00.



This is composed of choicest grains in just the correct proportions that several years of experience has demonstrated is right. Every practical poultryman will readily concede the great advantage of feeding such a mixture. Price, per 100 lbs., \$1.60.

Clover Leaf Egg a Day

Experience has shown that better results can be obtained by feeding poultry well-balanced feed, and feeding a greater proportion in mash form either in a dry state or slightly moistened. It therefore becomes necessary to feed a well balanced mash high in protein. Clover Leaf Egg A Day is compiled on an improved formula and is without doubt one of the best mashes on the market. Price, 80 lb. bag, \$1.50.

Charcoal, Granulated

It aids digestion, purifies the blood, regulates the bowels and promotes the general good health of the chicks and adult fowls. Fine granulated, for all mash rations and for small chicks and a coarser granulated for adult fowls. Price, 50-lb. bag, \$1.50.

Meat Scraps

The object in buying Meat Scraps or Meat Meal is to obtain the largest amount of digestible protein possible. Meat Scraps contain from 54% of protein. Spokane made. \$2.75.

MEAT MEAL — 54 per cent protein. Price, Spokane product, \$2.75.

Prices on all poultry feeds subject to change. Full value sent for remittance received.

**Shell**

The feeding of shells to poultry prevents soft shelled eggs, making the shells strong, and eggs larger and heavier.

Eastern Oyster Shell, per bag, \$1.25.

Alfalfa Meal

The value of some green food for fowls can hardly be overestimated. For a winter feed alfalfa is one of the best for this purpose. It contains more protein, lime and mineral salts in soluble and digestive form than clover, and fowls relish it in either a green or dry state. For producing eggs it has no equal. 100 lbs., \$1.25.

Bone, Granulated

Granulated Bone is made from fresh bones with the moisture and grease taken out, leaving nothing but the phosphate of lime and nitrogen. 100 lbs., \$2.50.

Bone Chick

This is ground the proper size for young chicks. 100 lbs., \$2.50.

Bone Meal

This is the same as granulated bone, but ground finer, so that it can be fed in a mash or to young chicks. 100 lbs., \$2.50.

Peat Moss

Peat Moss is a powerful absorbent and readily takes 14 to 15 times its own weight in water. Peat Moss should be spread evenly on the floor from an inch deep for chicks to three or four inches deep for full-grown birds. Bale weighs about 150 lbs. Price per bale, \$3.00.

Bird Seed

MIXED—Per lb., 15c.

CANARY—Per lb., 15c.

HEMP —Per lb., 15c.

MAW—Per lb., 25c.

RAPE, SWEET—Per lb., 20c.

MILLET—Per lb., 15c; 2 lbs., 25c.

CUTTLE BONE—Two for 5c.

SUNFLOWER—Per lb., 15c.

All bird seed recleaned.

Add postage on all bird seeds.

BIRD SPECIALTIES

BATH DISHES—Made of porcelain, sanitary. Price, 10c; postpaid, 15c.

BIRD BITTERS—A remedy for nearly all the diseases of cage birds. 25c; postpaid, 30c.

BIRD MANNA—Keeps cage birds in constant song, prevents disease. 15c; postpaid, 20c.

BIRD SAND—Pkg., 2 lbs., price 25c; add postage.

MITE-POWDER—Blow a little of the Mite-Powder under the feathers of the bird in the evening. Price, 25c; postpaid, 30c.

MOULTING PEPPER — When fed during moulting season it produces red-tinted feathers. Price, 25c; postpaid, 30c.

NESTS—Very convenient and suitable. Price, 15c; postpaid, 20c.

NESTLING FOOD—Special preparation and very highly recommended. Price, 25c; postpaid, 30c.

NESTING HAIR—Much better than any substitute. Price, 15c; postpaid, 20c.

ORANGE COLOR FOOD—Deepens and intensifies the natural color of the plumage. Feed to young birds after they are eight weeks old. Old birds during the moulting period. Price, 25c; postpaid, 30c.

SONG RESTORER—A treat and tonic for canaries, linnets, and all seed-eating birds. 15c; postpaid, 25c.

Booklet on cage birds, free on request.

POWDER GUNS—25c; postpaid, 30c.

DOG BISCUITS

PUPPY BISCUITS (The Standard Puppy Food)—A perfect and whole food for puppies of all breeds. Puppies should be started on these biscuits when about one month old and they should be continued until such time as their teeth become sound and strong, usually when they are about six months old. Pkt., 50c; mailing weight 3 lbs. Add postage.

DOG BISCUITS—The analysis of these biscuits shows that they are, weight for weight, equal in nourishment to fresh raw beefsteak and superior to it as a food for dogs. The standard dog food; a staple and constant food for all breeds of dogs. Square biscuit: Pkt., 40c; 5 lbs., 85c; 10 lbs., \$1.65; 25 lbs., \$3.50; 50 lbs., \$6.75; 100 lbs., \$13.00.

Oval Biscuit: Pkt., 45c; 25 lbs., \$3.50; 50 lbs., \$6.75; 100 lbs., \$13.00.

Fibo Biscuit Oval: Pkt., 50c; 25 lbs., \$4.00; 50 lbs., \$7.50; 100 lbs., \$14.50.

Kibbled biscuit: 10 lbs., \$1.65; 25 lbs., \$3.75; 50 lbs., \$7.00; 100 lbs., \$13.00.

Cat biscuit: Pkt., 50c.

Catnip leaves, 25c, postpaid.

Mailing weight, pkgs., 3 lbs.; mailing weight of bags, 1 lb. more than their priced weight; add postage.

Booklet, Spratt's Dog Culture, mailed on request.

DOG REMEDIES—CLAYTON'S



BOOK ON DOG DISEASES—AND HOW TO FEED—FREE

BLOOD PURIFYING AND COOLING PILLS—Especially useful in Eczema and all skin diseases. 60c.

CHOREA is an affection of the nervous system. Tablets, 60c.

COUGHS—Cough Remedy, liquid, for coughs and colds from whatever cause. 60c.

DIARRHOEA — Diarrhoea Remedy, tablets very effective. 60c.

DISTEMPER—Distemperine tablets, for distemper. 60c.

FLEAS—Ceoline Dog Wash, for fleas and for a disinfectant. 40c.

CREAM SOAP—For fleas and washing dogs. 35c.

KILFLEA SOAP—For fleas. 35c.

INDIGESTION — Digestive tablets, for all forms of indigestion. 60c.

LAXATIVE PILLS—Act directly on the liver and keep the bowels in good condition. 60c.

MANGE — Mange Remedy. Best remedy known for this disease. 60c.

SKIN LOTION—For all skin diseases. 60c.

WORMS—Vermifuge (soft capsules), also liquid. Can be given to small puppies, as well as dogs. 60c.

WORM PILLS—Composed of the best remedies known for the expulsion of worms. 60c.

RUNDOWN CONDITION — Condition pills, with pepsin. A very reliable remedy in all run-down conditions. Also very valuable in cases of distemper. Price, 60c.

CLAYTON'S DOG REMEDIES have long had a reputation for being very dependable, and they are generally considered as being the most desirable.

Add 5c to quotations if forwarded by mail. Booklet on care of dogs, free on request.

A complete line of dog collars, harness, muzzles and leads. Different sizes and prices.

Collars from 10 inches to 22 inches in length and prices from 60c to \$4.00.

Harness from 14 inches to 28 inches and prices from \$1.25 to \$4.75.

Leads 48 inches—chain leads, 40c; leather leads, 45c to \$1.20.

Muzzles—small and medium, \$1.10; large \$1.20. Add 5c to above prices for postage.

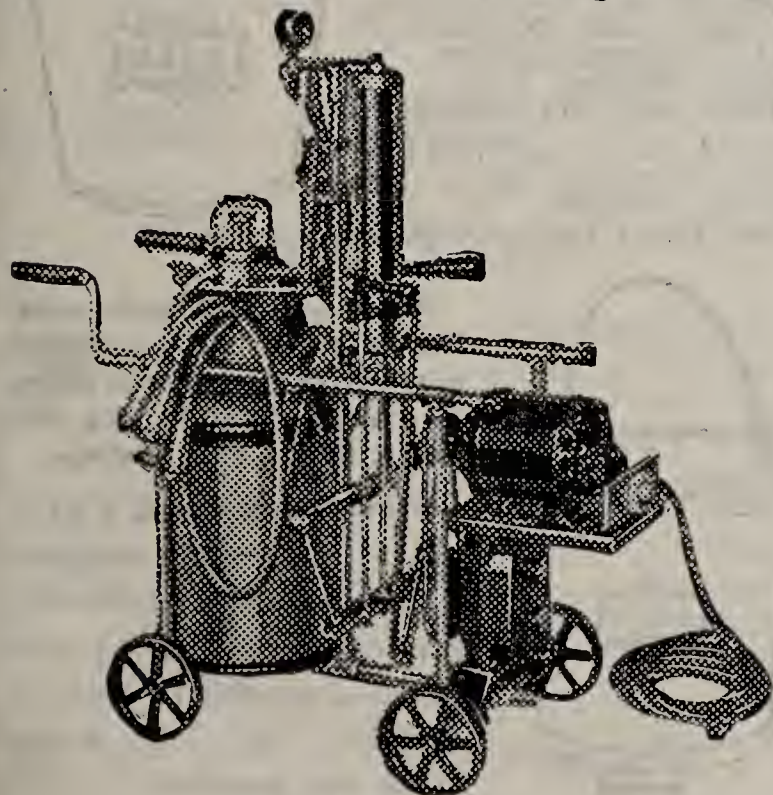
FISH FOOD

WAFFER FISH FOOD—This, as its name implies, comes in wafer form and is a highly nutritious preparation which is eagerly eaten by gold fish. Price, 15c; postpaid, 20c.

Dairy Supplies

The Page Milker

This hand operated model now brings machine milking within reach of every farmer. Just move it in and start milking—no installation. Does the work and does it right.



Electric

ELECTRIC

Here's the milker for the man who has electricity. Wheel behind the cows, turn on the electric switch and attach the teat cups for milking. The machine does the work, does it perfectly and with less bother and fuss than any other milker on the market.

GAS

Here's the milker for the man who wants a power milker and has no electricity. A small compact unit requiring no installation and still does exactly the same work as the big elaborate power installations and does it better.

Renfrew Cream Separator

The Renfrew bowl is open, sanitary and simple. It has few parts to wash. The boxed wings direct the flow of milk to the bottommost discs, making the whole milk travel the greatest possible distance under pressure for the required length of time and ensures complete separation.

No.	Capacity.
2	350
4	450
6	600

Guaranteed in every respect. If not entirely satisfactory money refunded.

Send for descriptive circular.

SEPARATOR OIL

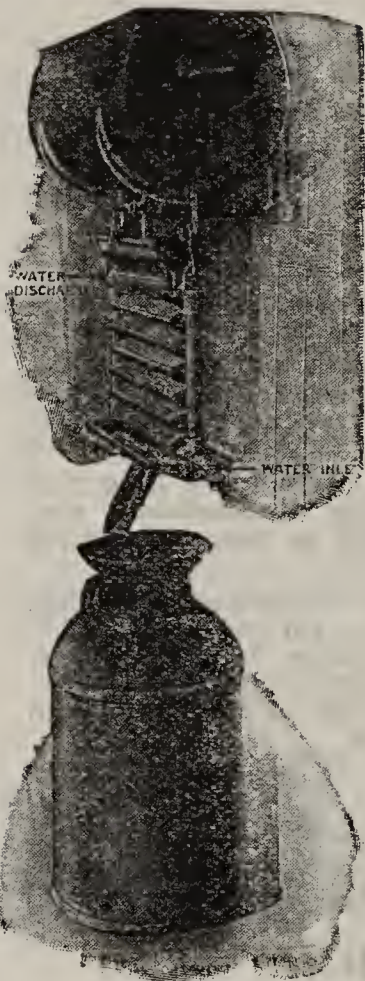
Standard, gallons	\$1.25
Standard, half gallons .....	.75

Cream Cans

1620 — Heavy, seamless outside cover. Heavy ears. Coppered bail. Natural finish bail wood. Cover without handle. Rounded bottom. No gauge or faucet. IX charcoal plate. 20 quarts. Weight 3½ lbs. Price, \$1.50; add postage.

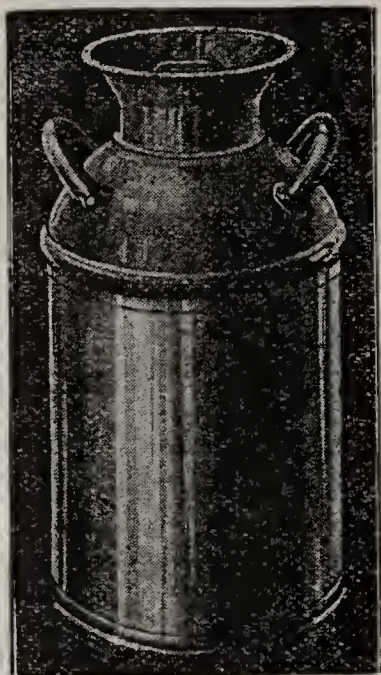
P17220—Heavy seamless inset cover, heavy ears, coppered bail, natural finish bail wood, cover with handle, flat bottom. With gauge and faucet. IXX charcoal plate. 20 quarts. Weight, 5¼ lbs. Price, \$2.75; add postage.





JUNIOR—This cooler is of tin construction and is as strong and durable as it is possible to construct it.

Capacity per		
No.	Hr.	Price
A	20-gal.	\$35.00
B	40-gal.	39.50
C	60-gal.	47.50



Junior

CANS

OHIO—This can is made with a single neck and is fitted with the popular outside bottom loop. It has round handles and will be found a very satisfactory can, as it is strong, durable and will withstand very rough usage.

Price, with cover as shown in cut:		
5 gallons	\$4.50	weight, 11 lbs.
10 gallons	5.25	weight, 17 lbs.

DELIVERY—Side handle, cover chained to can; well made and durable.

	Wt.	Price.
1 Gallon City Delivery	4 lbs.	\$2.25
2 Gallon City Delivery	5 lbs.	2.50
3 Gallon City Delivery	6 lbs.	2.75
2 Gallons St. John	7 lbs.	3.00
Add postage.		



Dazey Churn

The dasher in conjunction with the square corners of the receptacle, produces a thorough and scientific agitation making it possible to churn in 6 to 15 minutes.

Perfectly sanitary, the receptacle being non-absorbent, and no cracks to harbor the cream and become rancid.

Holds	Churns	Material	Price	Weight
4 quarts	2	Glass	\$2.00	8 lbs.
6 quarts	4	Glass	2.50	10 lbs.
8 quarts	6	Glass	3.25	12 lbs.
2 gallons	1	Metal	5.25	14 lbs.
3 gallons	1½	Metal	6.75	18 lbs.
4 gallons	2	Metal	8.25	20 lbs.
Add postage.				

GLASS JARS FOR CHURNS

Size.	Price	Weight
4 quarts	\$0.75	8 lbs.
6 quarts	1.00	10 lbs.
8 quarts	1.30	12 lbs.
Add postage.		

All glassware packed carefully, but safe delivery not guaranteed.

Butter Coloring

Wells and Richardson, 3-oz. bottles, 35c; gallon cans, \$4.25. Add postage.

Wizard Butter Worker

This style butter worker is a favorite with many. Butter is placed in the tray, salt added then worked by turning the crank, which causes the fluted roller to travel to and fro.

No. 3—Size, 17x27 in. and 3 in. deep inside; capacity, 20 lbs.; weight, 25 lbs. Price, \$7.50. Add postage.

DELIVERY CASES

Wood—Soft

Size	Capacity	Price	Weight
Quart	12	\$2.00	13
Pints	20	2.25	11
½ Pints	20	2.50	13
Add postage.			

Wood—Hard

Size	Capacity	Price	Weight
Quart	12	\$2.50	16
Pints	20	2.50	15
½ Pints	20	2.50	14
Add postage.			

PAILS



P8114

P8114 — Hooded. One-piece top or hooded. Steel ball. Reinforced ears. All seams sanitary soldered inside and outside. IX charcoal plate. 14 quarts. Weight 4 lbs.

Price, \$1.50; add postage.

P1114 — Reinforced ears, extra heavy wire in top, coppered bail, natural finish bail wood, IX charcoal plate. Flaring pattern. 14 quarts. Weight, 3 lbs.

Price, 90c; add postage.

P1214—Same as P1114 but IXX charcoal plate. 14 quarts. Weight, 3½ lbs. Price, \$1.00; add postage.



P1114

P5214 — Reinforced ears, heavy steel bail. Straight pattern IXX charcoal plate, 14 quarts. Weight, 3½ lbs. Price, \$1.00; add postage.

P7214—Reinforced ears, heavy steel bail, sanitary soldered inside and outside. Straight pattern IXX heavy charcoal plate, 14 quarts. Weight, 3¾ lbs. Price, \$1.25; add postage.



P7214

The **STERILAC PAIL** is so constructed that the dirt dropping into the opening is caught on the dirt shelf or screen, and not on the milk strainer, which is protected from falling dirt by the top part of the pail. The milk does not fall vertically, but slants toward the milker, passing above the dirt screen to the strainer. Price, \$4.00. Weight 5 lbs.; add postage.

STRAINERS



Heavy, seamless. Body and foot drawn from one piece. Heavy wire around top. Reversible wire ring to hold cloth.

No.	Capacity	Price	Weight
P1934.....	4 quarts	\$1.25	1½ lbs.
P1936.....	6 quarts	1.40	1¾ lbs.
P19712.....	12 quarts	1.75	3 lbs.

Add postage.



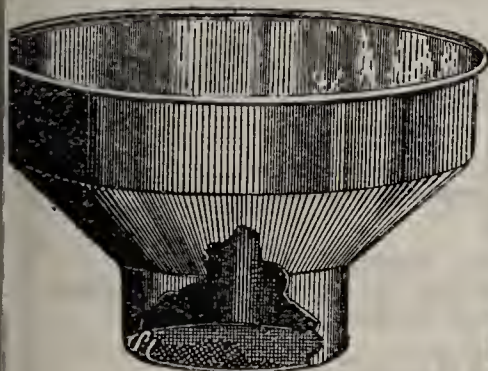
Wire Spring, 50c



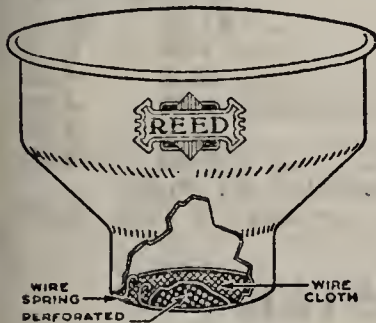
Brass Wire Cloth, 50c



Perforated Tin, 50c.



P19412—Extra heavy seamless, heavy wire around top; sanitary soldered. Equipped with removable brass wire cloth, perforated tin disc and wire spring. 12 quarts. Price, \$1.75. Wt., 3 lbs. Add postage.



P19514

P19514 — Same as P19412 but equipped with one flat and one convex perforated tin disc and wire spring. 14 quarts. Price, \$2.00. Weight, 3½ lbs. Add postage.

BOTTLE CAPS



Bottle Caps—Stock print same as shown in cut. No lift. Packed in tubes of 500.

1M .....	.50
5M	2.50
10M	4.75
25M	11.50

Thousand weigh 2½ lbs. In tubes of 500. Add postage.

CAPS WITH LIFT

1M	\$0.60	10M	\$5.75
5M	3.00	25M	14.00

Tubes of 500. Weight per M, 3 lbs. Add postage.

Stock Print, Cream, Whipping Cream and Buttermilk, 60c per M, in tubes of 500. Weight, 3 lbs. per M. Add postage.

Ask for price on 50M with your imprint.

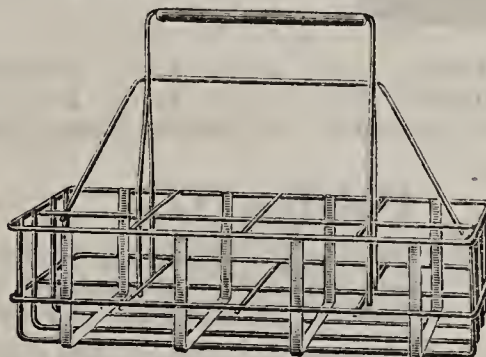
Sanitary Tinned Wire Delivery Cases

This bottle crate is constructed of the best grade basic steel wire and is electrically welded at every intersection of the wires.

Size	Capacity	Price	Weight
Quart	12	\$2.25	10
Pints	20	2.50	12
½ Pints	20	2.75	14

Add postage.

Bottle Carriers



All joints are electrically welded and will not loosen or break. The handle is also of steel, being of half round material so it will not pinch the hand. Finish is a heavy tin plating, which is extremely durable.

6-quart., wt. 3 lbs.	Each \$1.25
8-quart., wt. 3¾ lbs.	Each \$1.50

Add postage.

MILK BOTTLES

There are various grades of milk bottles on the market, and, unfortunately, there are still some people who consider a milk bottle a milk bottle. It is economy to use only the best.

Half Pints, doz., 75c; ½ gross, \$3.00; gross, \$5.50.

Pints, doz., 90c; ½ gross, \$4.00; gross, \$7.50.

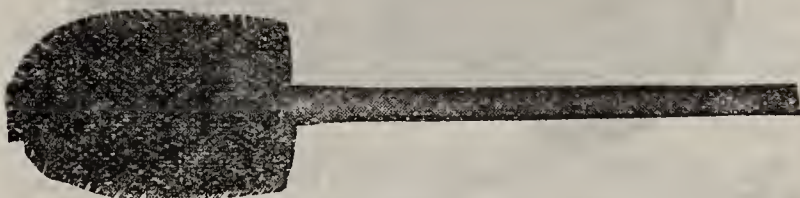
Quarts, doz., \$1.15; ½ gross, \$5.75; gross, \$11.00.

BRUSHES—Bottles, Milk

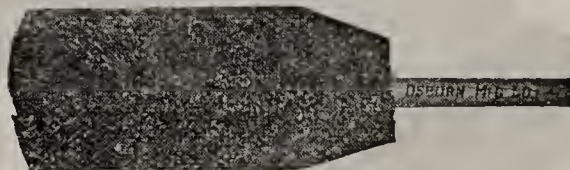


No. 72—See description bowl brush No. 72. Price, 40c.

No. 86—See description bowl brush No. 72, with exception of stiff bristle and better quality. Price, each, 60c.



No. 73—See description bowl brush No. 73. Price, 50c.



No. 123—Stiff gray hair, brush part 3 inches diameter, tapered to 1⅞ inches diameter at handle end; 6½ inches long; hickory handle, ¾ inch diameter, 5 inches long, tapered to ½ inch diameter at end. Price, 50c.

No. 124—Same brush as No. 123, with the single exception of handle being 9 inches long. Price, 50c.



No. 61—Stiff bristle body and tufts, brush part 3¼ inches wide, 2¼ inches thick, 7 inches long. hardwood handle, ½ inch diameter; 10 inches long. Price, 40c.



No. 82—Extra stiff gray hair, brush part 3 inches diameter, 5½ inches long, hickory handle, ⅝-inch diameter, 10 inches long. Price, 50c.

Bottles, Test

No. 835—For Babcock 10% milk bottles; white bristle; brush part 1⅝ inches diameter, 3 inches long, length over all 11½ inches. Price, 25c.

No. 833—For Babcock cream bottles; white bristle in body and tuft; brush part 1⅝ inches diameter, 3¼ in. long, length over all 10 inches. Price 25c.



No. 50—Gray horse hair body, gray tampico tufts, brush part 3¼ inches wide, 2¼ inches thick. Price, 35c.

Bowl

No. 812—Small, black china bristle; brush part ¾-inch diameter, 3 inches long; length over all 8½ inches. See cut spout brush No. 812. Price, 25c.

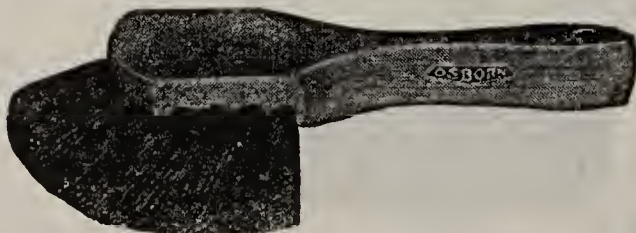
No. 72—Black china bristle; brush part 2¾ inches diameter, 6 inches long; handle 9 inches. See cut milk bottle brush No. 72. Price, 40c.

No. 73—Black China Bristle; brush part 3¼ inches diameter, 6 inches long, hickory handle, ½-inch diameter; 9 inches long. See cut milk bottle brush No. 73. Price, 50c.

Can



No. 08—Stiff Palmetto Fibre; length on face, 10 inches; width on face, 5 inches. Price, 40c.



No. 416—Stiff Palmetto Fibre, brush part 5 inches wide, 4 inches long; length over all, 10 inches. Price, 40c.

Milk Stools

Will not tip. Price, \$1.50. Weight, 4 lbs. Add postage.

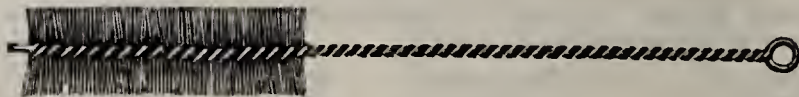
MILK COOLER



No. 286—Palmetto fibre, 2 rows wide, length of fibre 1 3/16 inches, curved handle, 14½ inches long. Price, 30c.

Add 5c to all brushes if forwarded by mail.

Spout



No. 812—See description bowl brush No. 812. Price, 25c.

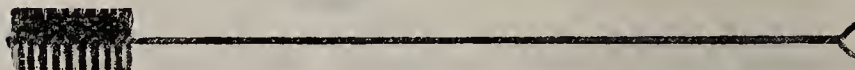


No. 815—Extra stiff black china bristle; brush part 5 inches by 2 inches diameter; length over all, 15 inches. Price, 25c.



No. 818—Black china bristle; brush part 1¼ inches diameter tapering to ¾ inch, 5 inches long; length over all, 12 inches. Price, 25c.

Hose Cleaning



No. 830—Gray Russian bristle, brush part 4½ inches by ⅜ inch. Length over all, 40 inches. Price, 35c.

	½ Doz.	Doz.
All 25c brushes.....	\$1.35	\$2.40
All 30c brushes.....	1.50	2.75
All 40c brushes.....	2.10	4.00
All 45c brushes.....	2.40	4.50
All 50c brushes.....	2.75	5.00
All 60c brushes.....	3.30	6.00

Add 5c to brushes if forwarded by mail.

Average mailing weight per doz., 4 lbs. Add postage.

MILK TESTER

Made in two and four bottle sizes. Each tester includes a full set of bottles, pipette, acid measure, test bottle brush and full directions for making tests.

	Price	Weight
No. 1—4-bottle, milk only.....	\$7.00	16
No. 2—4-bottle, milk and cream....	7.50	18

Order by number. Add postage.

Acid Dippers

17.5 C. C.—Each.....	60c
8.8 C. C.—Each.....	60c

Acid Measure

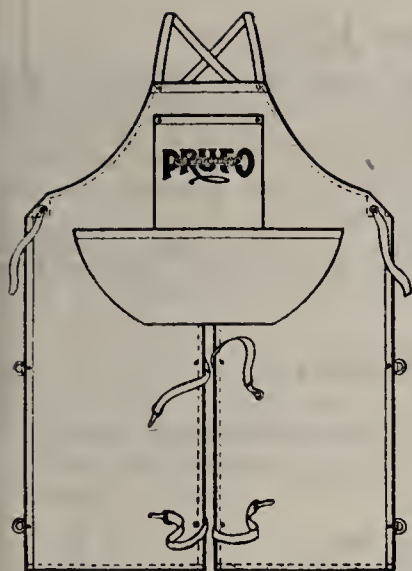
17.5 C. C.—Each.....	35c
8.8 C. C.—Each.....	35c

Pipettes, Plain

17.6 C. C.—Milk, 75c.
9 C. C.—Cream, 65c.

Test Bottles

Cream, 6-inch, 9-gram, graduated to 50%.
Cream, 9-inch, 9-gram, graduated to 50%.
Milk, 6-inch, 18-gram, graduated to 8%.
The above three test bottles. Each, 75c.
Skim Milk—Each, 75c.
We do not guarantee safe delivery of glass-ware.



Teamsters' Aprons

No. T-2—Reinforced front, top pocket, split legs, with two straps, snaps and rings, suspender straps riveted. Each, \$1.75.

Weight, 1 lb. Add postage.

Creamery Aprons

No. C-4—Creamery with patch, 8-oz. duck, suspender straps. 46-in. length, each, \$2.50. Weight, 2 lbs. Add postage.

Stirrer and Sampler

Duro Sampler has saucer-shaped disc of steel firmly attached to wrought iron handle of sufficient length to reach bottom of 10-gallon can.

Duro Stirrer is the same as Duro sampler with the exception that there are five holes punched in bowl of stirrer to make stirring more effective.

Sampler and Stirrer, 50c each. Weight, 2 lbs. Add postage.



Stirrer

Strainer Cloths

RED CROSS FILTER CLOTH—Used in strain-ers. 1-lb. rolls, 17 in. wide by 20 feet long, each, \$1.00; add postage.

Squares, 7x7 inches, packed 50 in box. Price, \$1.00. Weight, 2 lbs. Add postage.

COTTON DISCS

No.	Price	Weight
300—6 in. plain.....	\$1.25	13/4 lbs.
100—6 in. plain.....	.45	9 oz.
300—6 in. gauze one side.....	2.00	2 lbs.
100—6 in. gauze one side.....	.70	11 oz.
300—6 1/2 in. plain.....	1.50	2 lbs.
100—6 1/2 in. plain.....	.55	11 oz.
300—6 1/2 in. gauze one side.....	2.25	2 1/4 lbs.
100—6 1/2 in. gauze one side.....	.80	3/4 lbs.

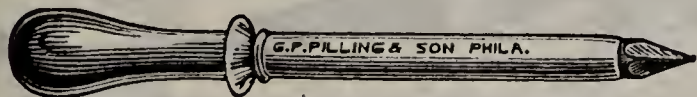
Add postage.

Parchment Butter Wrappers

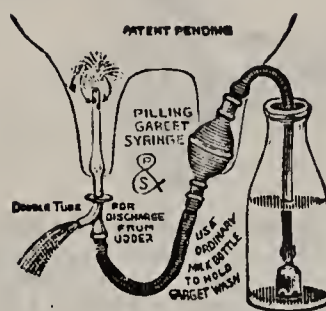
Amount	Plain	Ptd.	Wt.
100	\$0.25		3/4 lb.
500	1.15	\$3.40	3 1/2 lbs.
1000	2.00	5.00	7 lbs.

Not less than 500 printed. Size 8x11. Add postage.

CATTLE INSTRUMENTS



CATTLE TROCAR—Will promptly and safely relieve bloat. Every owner of cattle should have one on hand. Easy to use. Price, \$2.00; postpaid, \$2.10.



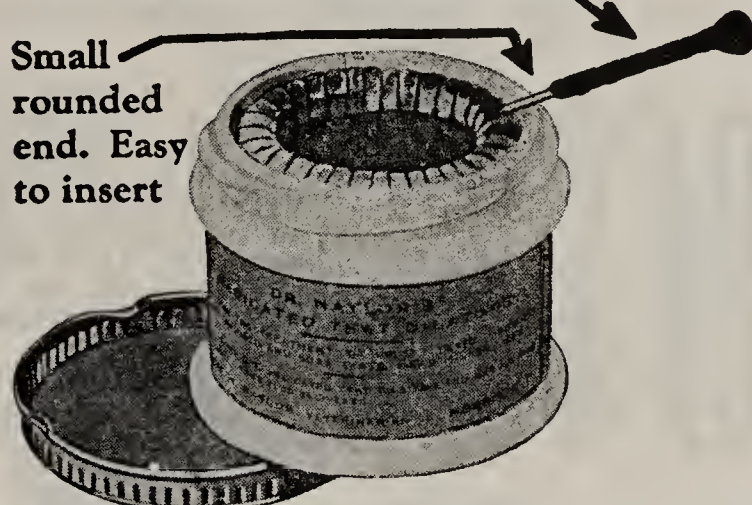
GARGET SYRINGE—Has a special make of rubber tubing, which allows the flow to be continuous instead of intermittent. It also has a double channel metal tube. One part of this tube is to inject the Garget Remedy into the udder and the other part allows the fluid, dead

germs and other impure matters to escape from the udder.

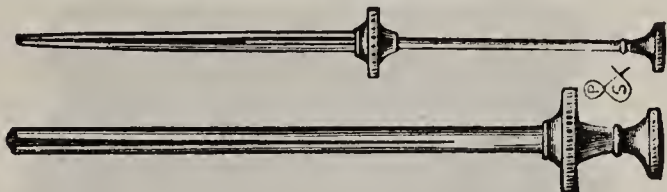
Pilling Garget Syringe Outfit Consists of Pilling Garget Syringe, Pilling Remedy (30 treatments), Pilling Animal Soap. Price, \$5.00; postpaid, \$5.10.

Soft Absorbent Texture

Small rounded end. Easy to insert



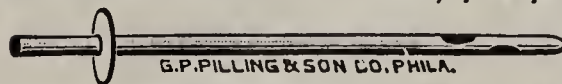
MEDICATED TEAT DILATORS—Dr. Naylor's Medicated Teat Dilators should be used right at the beginning of the trouble. For hard bunches and obstructions—do not resort to the knife. The dilators used right at the beginning of the trouble will absorb the obstruction. Severe cases or cases of long standing, when it is necessary to cut the teat, use Dr. Naylor's dilators to keep the teat open, until completely healed. Each, \$1.00; postpaid, \$1.10.



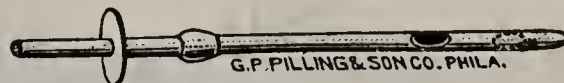
TEAT DILATOR—A finely made instrument, dilates without cutting. Nothing better made for this purpose. Price, \$1.50; postpaid, \$1.60.



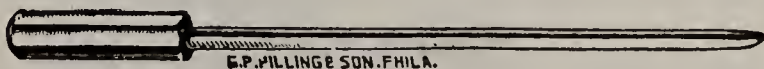
HARD RUBBER TEAT PLUG—Especially designed to prevent dropping of milk. Price, 65c; postpaid, 70c.



MILKING TUBE—Plain, plated 3 inches. Price, 40c; postpaid, 45c; 4 inches, price, 50c; postpaid, 55c.



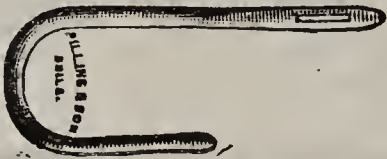
MILKING TUBE—Self-retaining; 3 inches, plated. Price, 50c; postpaid, 55c. 4 inches, 60c; postpaid, 65c.



The Pilling Teat Opener is simply used as a reamer or dilator to pass the obstruction. It does not cut the obstruction. \$1.00; prepaid, \$1.10.



TEAT EXPANDERS—Of metal, nickel-plated, is intended to expand and enlarge the opening of hard-milking teats. Also at the same time, it expands the milk canal; it is considered the best method of treating hard milkers. Easy to use. Price, 65c; postpaid, 70c.



LEAD PROBE—For enlarging opening in the cow's teats. 35c; postpaid, 40c.



MILK FEVER OUTFIT—Is made according to specifications described in Farmers' Bulletin 45, issued by the Bureau of Animal Industry, U. S. Department of Agriculture, except the rubber bulb. As it rots easily, this is replaced by a patented metal pump which will last a very long time.
Milk Fever Outfit, Metal Pump and Regulator Tube, \$3.50; postpaid, \$3.60.

Pig Forceps



Each, \$4.00; postpaid, \$4.10.

Stable Brooms



FIBRE—14x3 inches. Length of fibre, 6 inches. 4 rows, 12 to row. Price, 85c; weight 3 lbs.; add postage.

FIBRE—16x3½ inches. Length of fibre, 6 in. 4 rows, 14 to row. Price, \$1.00; weight, 4 lbs.; add postage.

STEEL—14x2½ inches. Length of steel, 5 in. 4 rows, 16 to row. Price, \$1.10; weight, 4 lbs.; add postage.

Handles not included in foregoing quotations. Price of handle, 25c. Weight 1 lb. Add postage.

Bells

LONG DISTANCE COW BELLS—Made from one piece of metal, no riveting. Smooth, good tone.

	Size	Price
No. 11	—3½x2⅝x3⅝ in. high	35c
No. 13	—4 x3⅝x4 in. high	45c

Sheep Bells

Cast malleable iron loop, copper plated. Substantial. Will not crack.
No. 9—2⅝x2-inch30c
Add 10c to each bell for postage.

Anti Cow Kicker

So-Boss Cow Hobble and Tail Holder fits snugly over the tendons of cow's hind legs and is readily drawn into holding position by drawing chain through lock to any desired tension. Automatically locks itself in any position when free end of chain is dropped.
Chain is approximately 22 inches long and has ring attached to free end. Price, 50c. Weight, 2 lbs. Add postage.

Calf Weaner

A perfect, humane and effective device. The hinge construction of this article allows the calf and cow to graze in the same pasture, yet effectually prevents sucking. It is easily applied. Once used always used.
Calf size, 50c; postpaid, 60c.
Cow size, 65c; postpaid, 70c.

Cow Bell Straps

Length 3 feet, width 1½ inch.....	65c
Sheep Bell Straps.....	35c

Ear Tags



Name can be put on the one side, numbers on the other. Not more than 10 large size letters can be put on hog or sheep sizes, or 15 on cattle. Mailing wt., 100 sheep size, 1 lb.; 100 cattle, 3 lbs. Add 5c per 100 or less number for postage.

	Sheep and Hogs	Cattle
25 name and number.....	\$1.00	\$1.10
50 name and number.....	1.50	1.75
100 name and number.....	2.00	2.50
500 name and number.....	8.50	11.00
25 name only or number only.....	.90	1.00
50 name only or number only.....	1.25	1.50
100 name only or number only.....	1.50	1.75
500 name only or number only.....	6.25	8.50

PUNCHES

Ear Label Punch



This combined punch and pliers are especially made for adjusting the buttons. The cutter makes the necessary hole, and the nipples seal the button.
Each, \$1.50; postpaid, \$1.60.

Combined Punch and Plier



This punch is made for inserting the labels only. It is necessary to cut hole in ear and also to seal labels.
Sheep size. Price, \$1.50; postpaid, \$1.60.
Cattle size. Price, \$1.75; postpaid, \$1.85.

Ideal Ear Buttons

Are made of pure hardened aluminum, consisting of two parts or sleeves, thus giving an absolute seal that will not become loose. Name and number can be put on without additional cost.

25, \$1.50; 50, \$2.00; 100, \$3.50; 500, \$15.25.

Add 5c per 100 or less number for postage.



Cow Pokes

The special grade of band steel used has a rounded edge and makes a very strong yet light poke. Pokes do not interfere with the animal when feeding, grazing, drinking or lying down and will not chafe the neck.

The Fence Guards or Forks are very strong and long enough to properly engage in any kind of fence, including poles or bars. The width is 6½ in., length 33 in. Price, 75c. Weight, 3 lbs.; add postage.

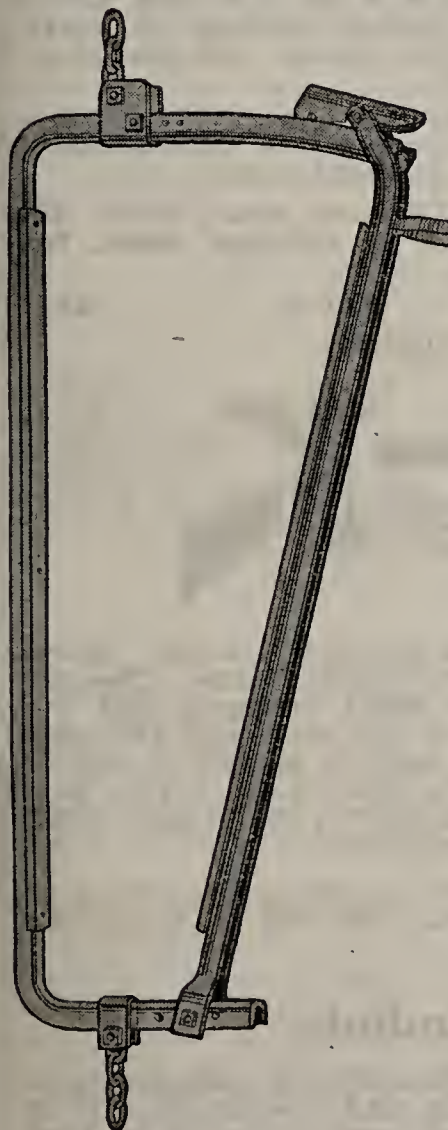
STANCHIONS

The frame of this stanchion is made of high-carbon U-Bar steel, and heavy pressed steel is used in the construction of every part. The lock is so well protected on the suspension plate that it cannot be opened by the cow's horns or by any movement of the stanchion, yet can be easily opened by one hand.

By loosening one bolt at the top and one at the bottom the width of the stanchion can be adjusted to the neck of any cow.

No. 100 — Wood-lined, \$3.00. Weight, 20 lbs.; add postage.

No. 102 — Same stanchion exactly as 100 but not wood-lined. Price, \$2.75. Weight, 19 lbs.; add postage.



Bull Staff

Constructed of 11/16-inch extra heavy steel pipe with malleable lock hook. Length, 4 feet 9 inches. Weight, 8 lbs. Price, \$5.00; add postage.

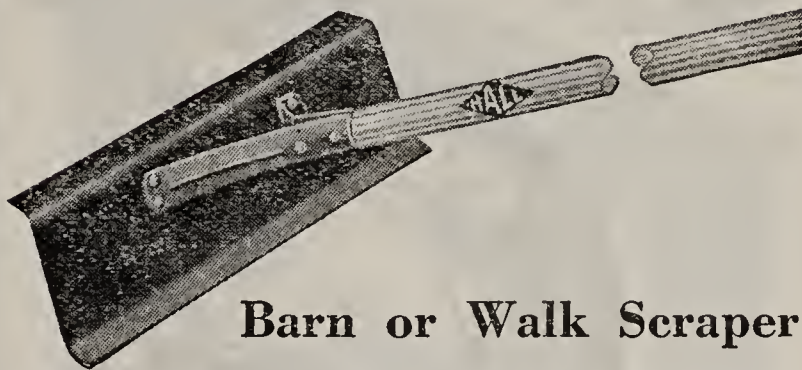
BRONZE BULL RING



Bronze, regular size, \$1.75; postpaid, \$1.80.

Bronze, large size, \$2.50; postpaid, \$2.55.

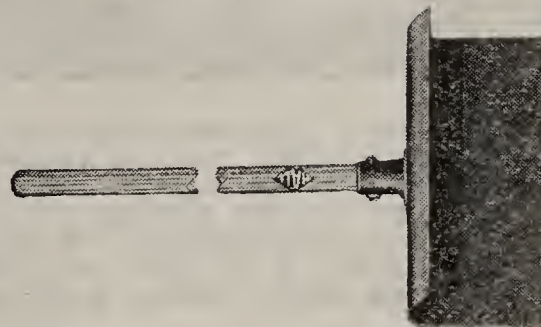
Copper, 35c; postpaid, 40c.



Barn or Walk Scraper

This scraper can be used for cleaning barn floors, alleys and gutters, also for removing snow from sidewalks. Heavy steel blade, 6½ inches high, 13 inches wide. Handle, 58 inches long. Length over all, 64 inches. A push or pull cleaner. Price, \$1.25; mailing weight, 7 lbs.; add postage.

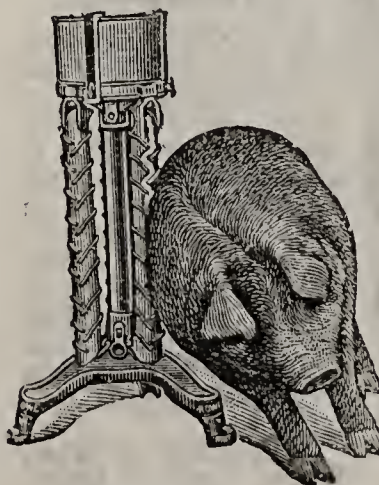
Curved Barn and Walk Cleaner



Curved blade made of high carbon shovel steel; 4 ft. wood handle. Length over all, 64 inches. Width, 13 inches.

Price, 90c; mailing weight, 7 lbs.; add postage.

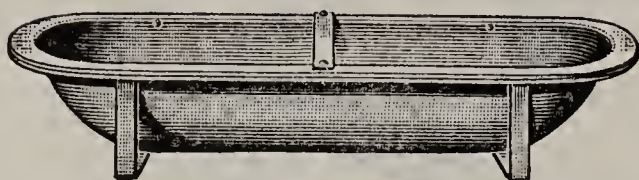
Hog Oiler



The Rowe Oiler can't clog or waste oil because it has no valves, no heavy rolling cylinder to stick, and if a hog lies down against the bar he lifts the spoon just once, gets only one small application of oil and doesn't cause all the oil to run out of the tank, as is the case where oilers depend on the opening and closing of valves.

Price, \$9.00.

Seamless Hog Trough



Length over all 26 inches. Inside 24 inches. Width over all 12 inches, inside 10 inches. Depth over all 5 inches, inside 4¾ inches. Holds three gallons. Price, \$1.25; weight, 6 lbs.; add postage.

Stock Feed

The quotation made on stock feed are present market values. These are all subject to change. All feeds will be shipped at prices prevailing when goods are shipped. Write for prices in quantities.

Oil Meal

The advantages of feeding Oil Meal are well known.

Oil Meal\$2.25

Write for prices, stating amount wanted. Prices subject to change.

Ryde's Cream Calf Meal



From practical tests it has been fully demonstrated that as good calves can be raised on Ryde's Cream Calf Meal as can be raised on milk. It contains everything needed to make calves grow and keep them healthy, 100 pounds makes 100 gallons perfect milk substitute. 25-lb. bag, \$1.15; 50-lb. bag, \$2.10; 100-lb. bag, \$4.00; add postage.

STOCK REMEDIES

Conkey's

FLY KNOCKER—All the time your stock is pestered by flies you are losing your profits. Use it on your horses and cattle night and morning. Does not injure the hide; odor will not taint milk. Keeps flies off, kills every one it hits, prevents lice and grubs.

Qt., 80c; 2 qts., \$1.35; gal., \$2.00. Not available.



K. O. Fly Spray

Will not taint milk or discolor hair. Kills and repels flies. Quarts, 60c; gallon can, \$1.50; 5 gallon can, \$5.00.

Lee's Flyo Curo, quart, 60c.

Bag Balm

A soothing penetrating salve for all affections of the bag. Price, 60c. Weight, 1 lb. Add postage.

Poke Root

Highly recommended for the treatment of garget. Price, 65c. Weight, 2 lbs. Add postage.

Kow Kare

Is different from any other cow remedy. Is specially recommended for barrenness, scours, milk fever, also for abortion and the removal of retained afterbirth, etc. It acts as a tonic for the system, renewing vitality and restoring appetite. It thus increases milk production by promoting better health and vigor. Per can, 65c and \$1.25. Mailing weight, 2 and 4 lbs. Add postage.

Udder Health

A penetrating ointment for garget, caked udder, hard or sore teats, external injuries, harness sores, sprains, etc. 8-oz. package, 75c; postpaid, 85c.

Zenoleum

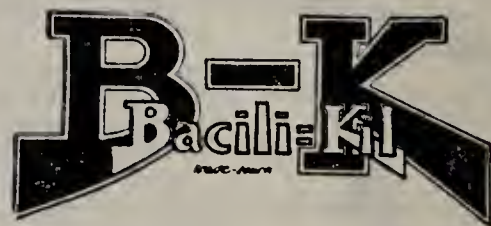
SHEEP SCAB—One part of Zenoleum to seventy parts of water heated to 100 to 110 degrees Fahrenheit. Hold the sheep in this bath for two minutes, rubbing the scabby parts with some rough substance to insure reaching the parasite.

SHEEP TICKS—To 12 gallons of water add 1 pint of Zenoleum. This is equal to one gallon of Zenoleum to one hundred gallons of water. Dip the sheep soon after mixing, and keep them in the water a minute.

LICE ON SHEEP—Dip the sheep, making a solution of one part Zenoleum to fifty parts of water. Repeat in six to eight days.

FLY AND MAGGOTS—Use equal parts Zenoleum and water, and in extreme cases, full strength Zenoleum.

½ gallon\$1.25 Gallon\$2.00
Not available.



B-K is a disinfectant but not a poison. Much stronger than coal tar disinfectants. Cheaper to use because of its great strength and the amount of dilution that can be used. Odorless and colorless. Largely used in dairies, creameries, hotels, restaurants, etc., 4-oz. bottle, 30c; 10-oz. bottle, 50c; 32-oz. bottle, 90c; 1 gal., \$2.00; 5 gallons, \$8.50. Not available.

B-K POWDER—Used for the same purpose as B-K liquid. Pkg., 9½ oz., 75c; 1¾ lb. \$1.50; add postage.

Wyandotte

This is the great cleaner and cleanser used by nearly all dairymen and creameries. It is conceded to be the best preparation of its kind

manufactured. 5-lb. bag, 45c; 25-lb. bag, \$1.85; 80-lb. kegs, \$5.55; 280-lb. barrels, \$15.85.

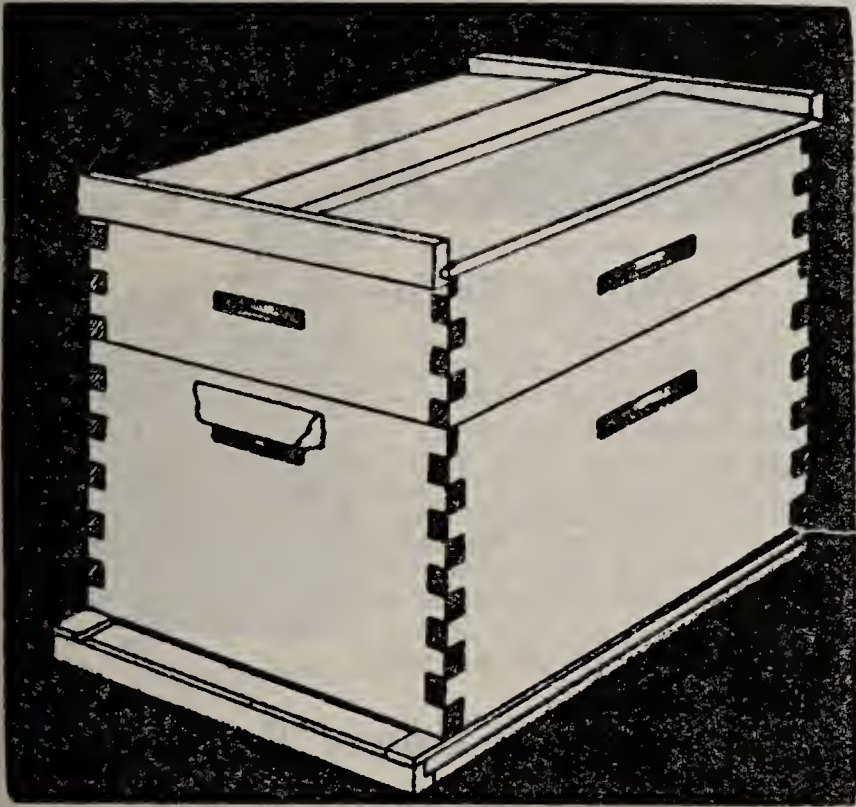
Add postage on the bags.
Prices subject to change.

DETERGENT—Used for cleaning painted walls, marble, tile and cement. 5-lb. bag, 50c. Add postage. 75-lb. kegs, \$6.80.

WYANDOTTE STERILIZER—5 lbs. \$1.95. Add postage.

DIVERSOL STERILIZER—2 lbs., \$1.00. Add postage.

Bee Supplies



DOVETAILED HIVES—The dovetailed hive is now the leading hive, as it contains many of the most desirable features of the various hives for the rapid handling of bees, and is one of the cheapest and best hives manufactured.

Complete hive consists of 1 body, 1 super, 1 bottom board, 1 cover, 8 Hoffman brood frames, 2 wedges for super, 6 section holders, 6 slotted separators.

EIGHT-FRAME HIVE

	Wt.		Wt.	
	Nailed 5-K. D.		Nailed 5-K. D.	
			Lbs.	Lbs.
1 Story	\$1.75	\$7.25	25	115
1½ Story	2.75	11.50	31	150
Bodies Empty .....	.70	2.75	9	40
Hive Covers .....	.65	2.50	9	40
Bottom Boards .....	.65	2.50	8	35

No division boards in hives. Add postage.

TEN-FRAME HIVE

	Wt.		Wt.	
	Nailed 5-K. D.		Nailed 5-K. D.	
			Lbs.	Lbs.
1 Story	\$2.00	\$8.50	32	150
1½ Story	3.00	12.50	42	200
Bodies Empty .....	.75	3.00	12	55
Hive Covers .....	.70	2.50	12	55
Bottom Boards .....	.70	2.50	9	50

No division boards in hives. Add postage.

SUPER-TEN FRAME HIVE

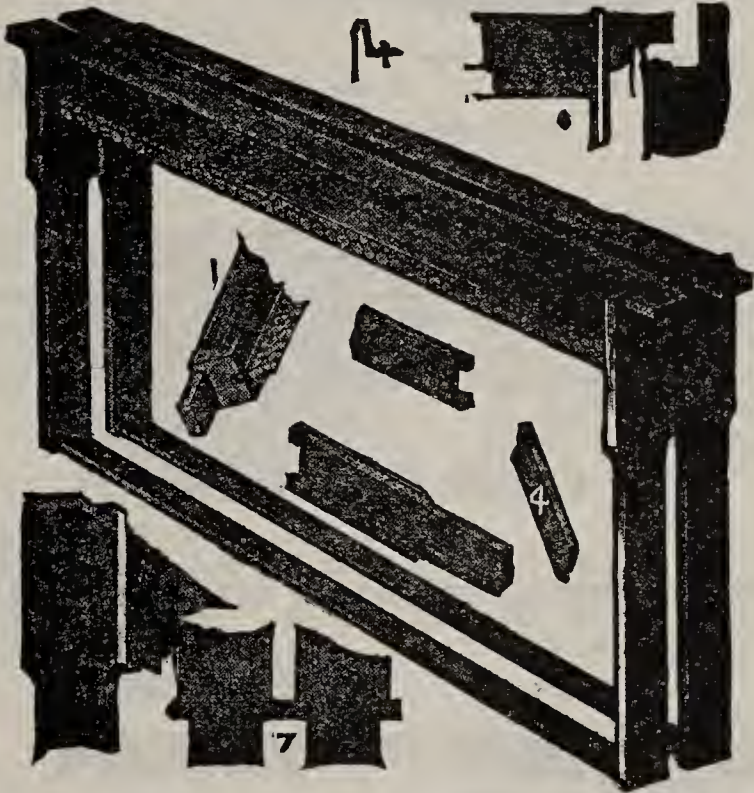
	Wt.		Wt.	
	Nailed 5-K. D.		Nailed 5-K. D.	
			Lbs.	Lbs.
Sup Comb Honey..	\$1.10	\$4.50	11	50
Super Extracting..	1.15	4.50	11	50

No division boards in Super. Add postage on all bee supplies.

SUPER-EIGHT FRAME HIVE

	Wt.		Wt.	
	Nailed 5-K. D.		Nailed 5-K. D.	
			Lbs.	Lbs.
Sup Comb Honey..	\$0.95	\$4.00	9	40
Super Extracting..	1.00	4.25	10	45
BEE HIVE EXTRAS				
		Each	50	100
Division Boards for Brood Chamber	10c	\$4.50	\$8.50	
Weight, each, 1 lb. Add postage.				
Division Boards for Deep Super	10c	4.50	8.50	
Weight, each, 1 lb. Add postage.				
Section Holders, slotted.....	5c	2.25	4.00	
Weight, 100, 35 lbs. Add postage.				
Slotted Separators	4c	1.25	2.00	
Weight, 100, 8 lbs. Add postage.				
Super Followers	10c	3.00	5.50	
Super Springs	3c	.75	1.25	
Spring Steel Hive Tool.....	60c	postpaid	.70	

Brood Frames



The Hoffman Improved Foundation Fastening Frames are the latest and best brood frames. The top bar is made with a beveled strip which holds the foundation in place, perfectly straight and exactly in center to top bar.

Any particular frame can be removed without thumbing over nearly all the other frames in the hive to get room. Price, each, 6c; 50, \$2.50; 100, \$4.75. Weight, per 100, 55 lbs. Add postage.

Shallow Extracting Frames: Price, each, 6c; 50, \$2.50; 100, \$4.75. Weight of 100, 28 lbs. Add postage.

Metal Spacers only, 100, \$1.25.

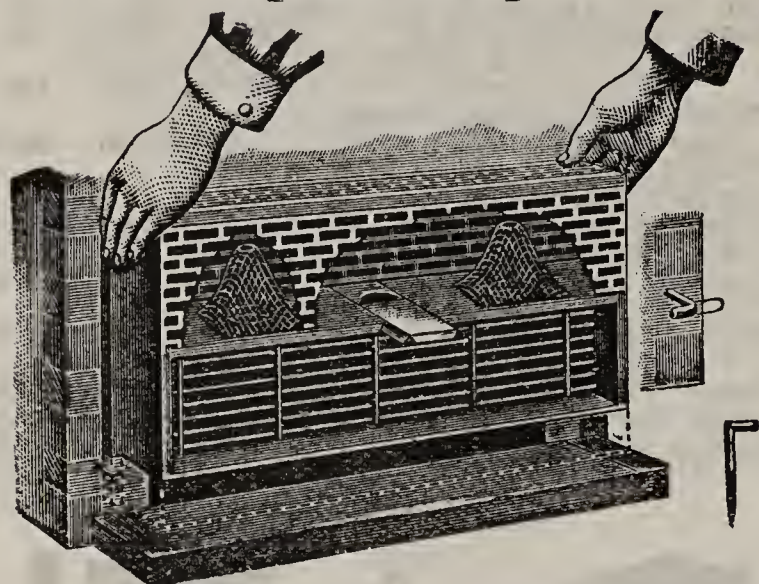
Bee Escapes



Porter

No apiarist can afford to be without bee-escapes. In taking off honey it is the greatest labor saving device that has been introduced in late years. It avoids shaking heavy spurs to get the bees out. Single, 25c; single, with board, 65c; double, 35c; double with board, 75c. Add 5c for postage. When ordering state if wanted for a 8 or 10 frame hive.

Alley's Combined Drone and Queen Trap



A perfect non-swarmer arrangement. Weight 1 lb. Each, 8 frame, \$1.00; 10 frame, \$1.10; add postage.

Brushes

BRISTLE—This is a strong, durable brush, made of black bristles. Price, 50c; postpaid, 55c.

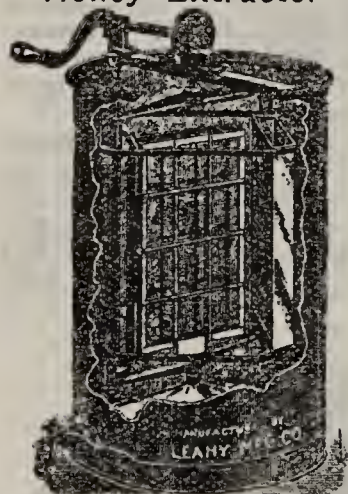
COGSHALLS—This is a sort of whisk broom especially adapted and made for brushing bees. The strands are thinned out and longer, so as to give a soft pliable sweep to the combs. 30c; postpaid, 35c.

Comb Foundation

Size of Sheet.	No. to lb.	Per lb.	Per 5-lb.	Per 10-lb.
Medium Brood, $7\frac{7}{8} \times 16\frac{7}{8}$	7	\$0.40	\$1.90	\$3.60
Light Brood, $7\frac{7}{8} \times 16\frac{7}{8}$	9	.45	2.15	4.10
Thin Super, $3\frac{3}{4} \times 15\frac{1}{2}$	28	.50	2.40	4.60

Add postage.

Cowan's Rapid Reversible Honey Extractor



Two-frame Cowan's Reversible for Regulating Frames. Price, \$35.00

Extractors

These Extractors have reversible comb pockets equipped with movable slides for cleaning, they are equipped with Ball-Bearings at the top and the bottom which makes it very light running.

These Extractors are made of the best Galvanized Steel and Iron throughout. The pockets are exceedingly strong and well braced and will give you many-years of satisfactory service.

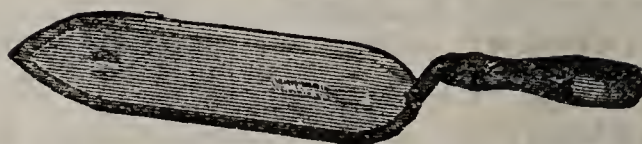
Gloves



Gloves for protection of the hands and wrists are almost indispensable.

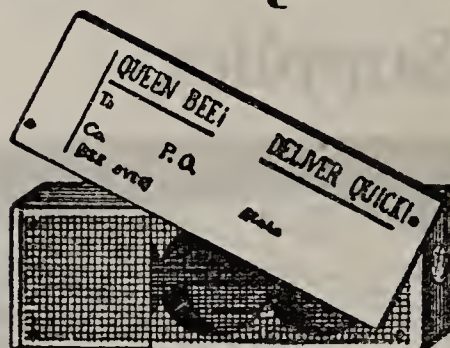
Canvas with sleeves, medium and large, \$1.25; postpaid, \$1.35.

Honey Knife



Price, \$1.50; postpaid, \$1.60.

Queen Cages



The cover, to insure prompt delivery, is printed in exact fac simile of cut. On the reverse side are printed directions for introducing Queens. 15c each.

Queen Excluding Zincs

This is used between the upper and lower stories, to prevent the queen going up above. It is also used in making entrance guards, queen and drone traps, etc.

For 8-frame hive, unbound, 12x19, 50c.

For 8-frame hive, wooden bound, $13\frac{3}{4} \times 20$, 60c.

For 10-frame hive, unbound, 14x19, 55c.

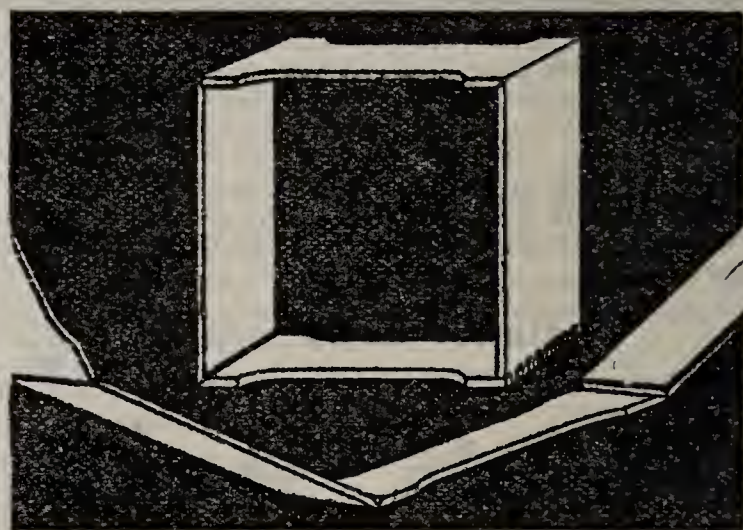
For 10-frame hive, wooden bound, 16x20, 65c.

8-frame, 7-wire-and-wood, $13\frac{7}{8} \times 20$. Price, 90c.

10-frame, 7-wire-and-wood, $16\frac{1}{4} \times 20$. Price, \$1.00.

Add 10c each for postage.

Section Honey Boxes



SECTIONS—Are made of the choicest white basswood lumber, and all are perfect in finish and free from defects. They are not all snow-white, but vary from that to light cream colors. Price, per 25, 40c; 100, \$1.50; 500, \$6.50; 1000, \$12.00. Weight 100, 6 lbs. Add postage.

Beeswax

Put up in 12-oz. cakes.

Price, 30c; postpaid, 40c.

Veils

A great necessity and very cheap. Cotton; silk face, \$1.25; postpaid, \$1.30.

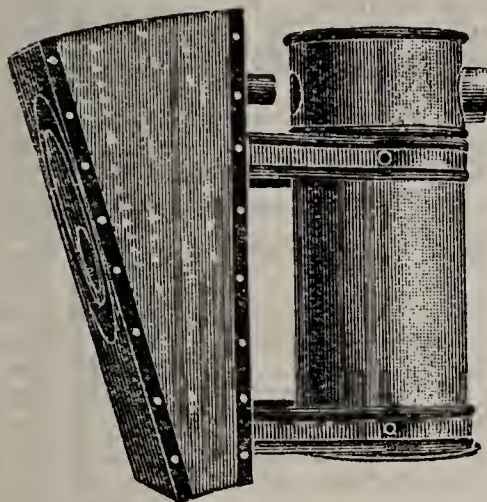
Globe—Has five bars that will keep veil away from head. Price, \$1.60; postpaid, \$1.65.



Globe

Smokers

Every bee keeper needs a smoker.



Acme

Acme — This is undoubtedly the best Cold Blast Smoker on the market. It has no tube in the fire box to clog. It throws a large volume of smoke at RIGHT angles to the fire box without a curved nozzle to lessen the blast. In fact, it is the perfection of smokers.

Price, \$1.00.
Weight, 2 lbs.
Add postage.



Higginsville

This smoker is, as its name implies, strictly a Higginsville product. It is a hot blast, and has a 3 1/4-inch fire box, and the nozzle is detachable to admit of filling or cleaning. It has as strong a blast as any smoker made.

Price, \$1.25. Weight, 2 lbs. Add postage.

NEW BINGHAM BEE SMOKER Patented



BINGHAM DOCTOR—This is a strong, well-made smoker; does not clog up and will burn any fuel. In this smoker the nozzle is attached by means of an open hinge and fits over the outside of the smoker.

Price, \$1.50. Weight, 2 lbs.; add postage.

Bee Books

A B C and X Y Z is the most complete and best book ever issued on bees and is equally valuable to the advanced bee keeper as well as to the beginner. Price, \$3.25. Weight 4 lbs. Add postage.

Wire

No. 30 Tinned Wire seems to be the most suitable of any for wiring frames.

1/4-lb. spools, each, 25c.

1/2-lb. spools, each, 40c.

1-lb. spools, each, 65c.

Postpaid, 30c, 45c, 75c.

Add postage.

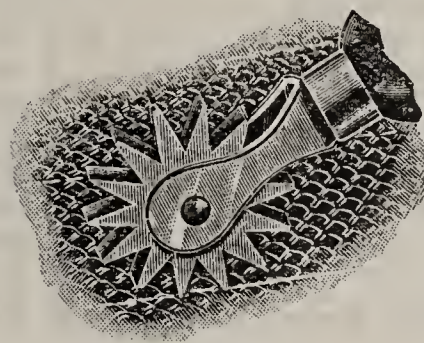
Foundation Fasteners



Parkers

The Parker Fastener is a cheap machine for fastening starters. With a little practice it can be made to work very satisfactorily. Price, 50c; postpaid, 60c.

Wire Imbedder



The teeth are wide and grooved in the direction of the circumference midway across front of teeth, so that the wheel will easily follow the wire. 50c; by mail, 55c.

Wax Tube Fastener



Van Deusen

For fastening the foundation sheets to thin top-bars there is nothing better than the Van Deusen wax tubes. It is simply a brass tube half an inch in diameter, six inches long and tapering. This is filled with hot wax and the point is then slowly drawn along the edge of the foundation in contact with the top-bar, leaving a fine stream of hot wax to cement it. 50c; by mail, 55c.

Entrance Guards



These are to admit workers, and to exclude drones. After the drones are all out, fix guards over the entrance and at night the drones can be destroyed. For 8 and 10 frame hives. 30c; by mail, 35c.

QUANTITY OF SEED TO ACRE

Alfalfa	8 to 15 lbs.	Grass—Orchard	20 to 30 lbs.
Artichoke, 1 oz. to 500 plants.....	6 oz.	Horse Radish Roots.....	15,000 to 20,000
Asparagus, 1 oz. to 500 plants.....	1 lb.	Kale, 1 oz. to 150 feet of drill.....	1 lb.
Barley	60 to 75 lbs.	Kale, thousand headed.....	1 lb.
Beans, Dwarf, 1 lb. to 100 feet of drill.....	50 lbs.	Khol Rabi, 1 oz. to 150 feet of drill.....	2 lbs.
Beans, Tall, 1 lb. to 150 hills.....	25 lbs.	Kaffir Corn	6 to 8 lbs.
Beet, garden, 1 oz. to 50 feet of drill.....	5 lbs.	Leek, 1 oz. to 100 feet of drill.....	4 lbs.
Beet, sugar, 1 oz. to 50 feet of drill.....	5 lbs.	Lettuce, 1 oz. to 150 feet of drill.....	3 lbs.
Beet, Mangel Wurzel, 1 oz. 50 ft. of drill....	5 lbs.	Melon, Musk, 1 oz. to 60 hills.....	2 to 3 lbs.
Broccoli, 1 oz. to 2,000 plants.....	4 oz.	Melon, Water, 1 oz. to 30 hills.....	3 to 4 lbs.
Brussels Sprouts, 1 oz. to 2,000 plants.....	4 oz.	Millet	30 lbs.
Broom Corn	12 lbs.	Nasturtium, 1 oz. to 50 feet of drill.....	15 lbs.
Buckwheat	45 lbs.	Oats	75 lbs.
Cabbage, 1 oz. to 1,500 plants.....	½ lb.	Okra, 1 oz. to 100 eet of drill.....	8 lbs.
Carrot, 1 oz. to 125 feet of drill.....	3 lbs.	Onions, 1 oz. to 100 feet of drill.....	4 to 8 lbs.
Cauliflower, 1 oz. to 2,000 plants.....	3 oz.	Onions, for sets.....	30 to 40 lbs.
Celery, 1 oz. to 5,000 plants.....	1 lb.	Onion Sets, 1 lb. to 75 feet of drill.....	400 lbs.
Chicory, 1 oz. to 100 feet of drill.....	4 lbs.	Parsley, 1 oz. to 300 feet of drill.....	3 lbs.
Clover, Alsike	6 to 15 lbs.	Parsnips, 1 oz. to 200 feet of drill.....	6 lbs.
Clover, White	6 to 10 lbs.	Peas, Garden, 1 lb. to 50 feet of drill.....	60 lbs.
Clover, White, for lawns.....	25 to 100 lbs.	Peas, Field	150 lbs.
Clover, Red and Crimson.....	12 to 20 lbs.	Pepper, 1 oz. to 100 plants.....	
Clover, sweet, hulled.....	15 lbs.	Potatoes	400 to 600 lbs.
Collards, 1 oz. to 2,000 plants.....	4 oz.	Pumpkin, 1 oz. to 30 hills.....	3 to 4 lbs.
Corn, Sweet, 1 lb. to 200 hills.....	8 to 12 lbs.	Radish, 1 oz. to 100 feet of drill.....	10 lbs.
Corn, field	8 to 12 lbs.	Rape, Dwarf Essex.....	5 to 10 lbs.
Corn, fodder	8 to 20 lbs.	Rutabagas, 1 oz. to 150 feet of drill.....	2 lbs.
Corn, Pop	8 to 12 lbs.	Rye	60 to 80 lbs.
Cress, 1 lb. to 100 feet of drill.....	1 lb.	Salsify, 1 oz. to 50 feet of drill.....	8 lbs.
Cucumber, 1 oz. to 60 hills.....	2 to 3 lbs.	Spinach, 1 oz. to 100 feet of drill.....	8 lbs.
Egg Plant, 1 oz. to 2,000 plants.....	4 oz.	Squash, Summer, 1 oz. to 25 hills.....	3 lbs.
Endive, 1 oz. to 100 feet of drill.....	4 oz.	Squash, Winter, 1 oz. to 12 hills.....	4 lbs.
Flax, for seed, 30 lbs. to acre; for fibre.....	50 lbs.	Sugar Cane	10 lbs.
Grass, Brome	25 lbs.	Sunflower	8 lbs.
Grass, lawn, 1 lb. to 300 sq. ft.....	80 lbs.	Tomato, 1 oz. to 2,000 plants.....	4 oz.
Grass, Kentucky Blue, Canadian Blue.....	20 lbs.	Turnip, 1 oz. to 150 feet of drill.....	2 lbs.
Grass, Sudan	10 lbs.	Vetches, Spring	60 to 90 lbs.
Grass—Timothy	6 to 12 lbs.	Vetches, Winter	30 to 60 lbs.
Grass—Red Top	10 to 15 lbs.	Wheat	60 to 80 lbs.
Grass—Rye, Oat Grass, Fescue Grasses....	30 lbs.		

WEIGHT OF SEED PER BUSHEL

Clovers:		Barley, Hulled.....	60	Red Top, Hulled.....	36	Liberty	50
Alfalfa	60	Corn, Ear.....	70	Rye, English	25	Siberian	50
Alsike	60	Corn, Shelled	56	Rye, Italian.....	22	White Wonder.....	50
Crimson	60	Oats	32	Sudan	22		
Red	60	Rye	56	Tall Meadow Oat....	14	Miscellaneous:	
Sweet, Hulled.....	60	Wheat	60	Timothy	45	Buckwheat	50-48
Sweet, Unhulled	40					Flax	56
White	60	Grasses:		Millet:		Peas, Smooth.....	60
Grains:		Blue	14	Hog	50	Peas, Wrinkled	56
Barley	48	Brome	14	Hungarian	48	Onion Sets, Bot-	
		Orchard	14	Japanese	40	toms	32

USUAL DISTANCE FOR PLANTING

Bushes:		Roots:		Onions, drills, 2 to 3 ft.
Blackberries, 8x4 ft.		Asparagus, 2x3 ft.		Parsnips, drills, 2 to 3 ft.
" Mammoth, 8x12 ft.		Potatoes, 18 in. by 3 ft.		Peas, drills, 2 to 3 ft.
Currants, 5x3 ft.		Rhubarb, 3x4 ft.		Peas, broadcast, acre, 150 lbs.
Dewberries, 8x4 ft.		Sweet Potatoes, 2x4 ft.		Pumpkins, 8x8 ft.
Gooseberries, 5x3 ft.				Radishes, drills, 1 to 2 ft.
Raspberries, 7x3 ft.		Seeds:		Salsify, drills, 1 to 2 ft.
Plants:		Beans, bush, drills, 3 ft.		Spinach, drills, 1 to 2 ft.
Cabbage, Early, 16x30 in.		Beans, pole, 3x3 ft.		Squash, bush, 3x4 ft.
Cabbage, late, 24x30 in.		Beets, table, drills, 2x2½ ft.		Squash, running, 8x8 ft.
Cauliflower, 2x3 ft.		Beets, stock, drills, 2x3 ft.		
Celery, 6 in. by 4 ft.		Carrots, drills, 2x2½ ft.		Trees:
Egg Plant, 3x5 ft.		Corn, sweet, 2x3 ft.		Apple, 30x30 ft.
Peppers, 18 in. by 2½ ft.		Corn, field, 3x3 ft.		Cherry, 20x20 ft.
Tomatoes, 4x4 ft.		Cucumbers, 4x4 ft.		Peach, 20x20 ft.
Strawberries, hills, 1½x3 ft.		Lettuce, drills, 1x2 ft.		Pear, 20x20 ft.
" matted rows, 1x3 ft.		Melon, Musk, 5x5 ft.		Plum, 20x20 ft.
		Melon, Water, 7x7 ft.		Quince, 20x20 ft.

NUMBER OF PLANTS TO ACRE

Dist. Apart	Plants	Dist. Apart	Plants	Dist. Apart	Plants	Dist. Apart	Plants
12x 1 in.....	522,270	25x18 in.....	15,520	36x36 in.....	4,840	60x60 in.....	1,745
12x 3 in.....	174,240	30x 1 in.....	209,088	42x12 in.....	12,446	8x 1 ft.....	5,445
12x12 in.....	43,560	30x 6 in.....	34,848	42x24 in.....	6,223	2x 3 ft.....	1,815
16x 1 in.....	382,040	30x12 in.....	17,424	42x36 in.....	4,148	8x 8 ft.....	680
18x 1 in.....	348,480	30x16 in.....	13,068	48x12 in.....	10,890	10x 1 ft.....	4,356
18x 3 in.....	116,160	30x20 in.....	10,454	48x18 in.....	7,790	10x 6 ft.....	726
18x12 in.....	29,040	30x24 in.....	8,712	48x24 in.....	5,445	10x10 ft.....	435
18x18 in.....	19,360	30x30 in.....	6,970	48x30 in.....	4,356	12x 1 ft.....	3,630
20x 1 in.....	313,635	36x 3 in.....	58,080	48x36 in.....	3,630	12x 5 ft.....	736
20x20 in.....	15,681	36x12 in.....	14,520	48x48 in.....	2,723	12x12 ft.....	302
24x24 in.....	10,890	36x18 in.....	9,680	60x36 in.....	2,901	16x 1 ft.....	2,722
24x 1 in.....	261,860	36x24 in.....	7,260	60x48 in.....	2,178	16x16 ft.....	170

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